CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Club, Chicago, Ill., Agricultural Club of America having sketches made, $35,000,000.

Bridge, Cleveland, O., Cuyahoga Co. voted bonds, $7,000,000 bridge, $1,000,000 right-of-way.

Flood Control and water supply, Ft. Worth, Tex., Tarrant Co. Water Control League making plans, $6,500,000.

Hotel, Jersey City, N. J., Universal Securities Co. having sketches made, $5,000,000.

Flood prevention and irrigation, Texas, Hidalgo and Cameron Counties plan, $4,500,000.

Hotel, Club, Minneapolis, Minn., Nordic Hotel Assn. having plans prepared, $2,500,000.

Cold storage, Chicago, Ill., Produce Terminal Cold Storage Co. having plans prepared, $2,000,000.

Roads, Canton, Miss., Madison Co. voted bonds, $2,000,000.

Schools, Springfield, Mo., Bd. Educ. having preliminary plans prepared, $1,750,000.

School, Hamilton, O., voted bonds Nov. 8, $1,500,000.

Schools, Cleveland, O., voted bonds Nov. 8, $1,500,000.

School, Port Arthur, Tex., Bd. Educ. plans, $1,500,000.

Hydro-electric development, Olympia, Wash., Hamma Hamma Paper & Power Co. plans, $1,500,000.

Hotel, Elmira, N. Y., Wisner Park Corp. of America takes bids in March, $1,140,000.

Stadium, St. Louis, Mo., Washington University having preliminary plans prepared, $1,000,000.

Hotel, Newark, N. J., Owner, c/o F. Grad, archt., having sketches made, $1,000,000.

City Hall, Atlanta, Ga., City Council having plans prepared, $1,000,000.

Bids Desired

Hospital, Chicago, Ill., Dec. 3, by Holabird & Roche, archts., $2,000,000.

Contracts Awarded

Power plant, Tampa, Fla., Tampa Electric Co. to Stone and Webster, Inc., Boston, Mass. Engrs. est. to exceed $5,000,000.

Hospital and nurses home, New York, N. Y., French Hospital general contract to G. A. Fuller Co. Archts. total est. $2,000,000.

Loft, New York, N. Y., Printarts Building, Inc., to Magoba Constr. Co. Archts. est. $2,000,000.

Theatre and commercial building, Toledo, Ohio, Famous Players-Lasky, New York City, to Lundoff-Bicknell Co., Cleveland. Archts. est. $1,500,000.

Hospital, New York, N. Y., Neurological Institute of New York to M. Eidlitz & Sons, $1,250,000.

Factory and warehouse, Yokohama, Japan, Ford Motor Co., Detroit, Mich., to H. K. Ferguson Co., Cleveland, O. Archts. est. $1,000,000.

News of the Week

Waterworks

Proposed Work

Mass., Attleboro—Plans completing water supply, incl. pumping station and pipe lines. $200,000. M. Taber, City Hall, engr.

N. Y., Syracuse—Long Branch Water Dist. soon takes bids 7,750 ft. 6 or 8 in., and 6,700 ft. 2- to 4-in. c.i. or wrought iron mains and distribution system. $27,000. H. L. Aberdeen, Gurney Bldg., engr.

N. J., Newark — T. L. Raymond, dir. Dept. Pub. Affairs, City Hall, rejected bids Oct. 19, 3 mi. 60 in. water conduit from Belleville Reservoir, Belleville, to 8th Ave., here. Noted Sept. 29.

Ga., Smyrna — Voted $35,000 bonds, waterworks.

Miss., De Kalb—Making plans waterworks improvements. $35,000. H. A. Mentz, Citizens Bank Bldg., Hammond, La., engr.

La., Opelousas — Voted $50,000 bonds, improvement and additional equipment for water and light plant.

Ind., Morgantown — Takes bids early in December, complete waterworks, incl. mains, elevated steel tower, pump house, and pumping equipment, etc. $30,000. W. S. Heer Eng. Co., 414 Terre Haute Trust Bldg., Terre Haute, engrs.

Mo., Golden City—Plans complete waterworks, distribution system, and sewers, etc. in various streets. $75,000. A. C. Moore, Joplin Natl. Bank Bldg., Joplin, engr.

Mo., Ozark—Making preliminary plans waterworks and distribution system. F. B. Hawke, city clk.

Tex., San Antonio—See "Unclassified."

Okla., Ada—Voted $425,000 bonds, 18 mi. 24 in. rein.-con. conduit from here to Byrds Mill. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs. Noted May 12.

Okla., Talihina—Soon takes bids waterworks improvement, incl. concrete dam and distribution system. $60,000 bonds voted for same. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs. Noted Oct. 20.

Ore., Beaverton—Made surveys and estimates waterworks. Barr & Cunningham, Spalding Bldg., Portland, engrs.

Ore., The Dalles—Making plans approximately 6 mi. 24 in. pipe line and 25 ft. storage dam, at Lost Lake, 30 m.g.d. D. G. Glass, city engr.

Ore., Grants Pass—Made surveys and estimates waterworks, incl. pumping plant and filter $86,000, reservoir $31,000, wood pipe $196,000, or iron pipe $317,000, also 135 hydrants. Engrs. total est. $400,000. Barr & Cunningham, Spalding Bldg., Portland, engrs.

Bids Desired

N. Y., Brooklyn—Dec. 2, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Avenues J, N, R, V, X and Y, Banner, Flatlands, Nostrand, Remsen, Schenectady, 7th, Stillwell Aves., Apollo, Brown, Bay, 8th Sts., here.

N. Y., Long Island City — Nov. 29, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in 28th, Hazen, Simonson, 61st, 70th and 71st Sts., 35th, 43rd, 60th, Goethels, and 34th Aves., etc., here.

N. Y., New York — Nov. 29, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Spuyten Duyvil Parkway, Bronxdale East Tremont, and Westchester Aves., Bronx Boro.

N. Y., St. George — Nov. 29, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Bryant, Coddington, Cromwell, Decker, Dewey and Delafield Aves., Clawson, Edison, Pearson, 10th Sts., etc., Richmond Boro.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Md., Towson—Dec. 12, by Comrs. Baltimore Co., Court House, mains in Rosemont and English Consul, Contr. 14-W and 15-W; Stoneleigh, Gray Manor and Falls Rd., Contr. 16-W and 17-W; also Sollers Point Rd., Turners Station and Middle River, Contr. 18-W and 19-W. A. E. Walden, ch. engr; adv. E. N.-R. Nov. 24.

Va., Alexandria—Dec. 12, by Alexandria Water Co., U. S. Lambert, pres., pumping station addition, etc. Hazen & Whipple, 25 West 43rd St., New York City, civil engrs.; adv. E. N.-R. Nov. 24.

Mich., Detroit—Nov. 30, by J. E. Mills, comr. Purchases & Supplies, Marquette Bldg., one 72 in. flanged gate valve for Dept. Water Supply, 176 East Jefferson Ave.

Calif., Dorris—City Trustees taking bids multistage centrifugal pump, 300 g.p.m., 140-head, direct connected to vertcial motor 20 hp., drill and case 150 ft. 12 in. diam. well. J. F. Mackey, Mt. Shasta, engr.

Calif., Fullerton — F. C. Hezmalhalch, city clk., taking bids furnishing and installing booster and deep water pumps, and electrical equipment.

Calif., Ventura—Dec. 5, by City Trustees, 35,500 ft. 18- to 24-in. welded steel or c.i. pipe line, and 23,800 ft. 6- to 14-in. c.i. mains, etc., in various streets. Noted Oct. 6.

Bids Received

Mass., Boston—Metropolitan Dist. Water Supply Com., 24 School St., east portion. 14 mi. concrete tunnel in towns of West Boylston, Holden, Rutland, Oakham and Barre, from J. P. Porter, Portland, Ore., $4,074,981, and west portion from Coughlan & Porter, Boston, $4,799,363. Noted Oct. 6.

Contracts Awarded

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Avenues M and T, Bedford, Dumont, 21st and 23rd Aves., West, East 2nd, East 7th Sts., etc., to Knight & Demicco, 4197 Parkk Ave., $8,672. Noted Nov. 3.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Allerton, Arnow, Barker Aves., etc., to Knight & DeMicco, Inc., 4197 Park Ave., $10,440. Noted Nov. 3.

Mich., Detroit—Plymouth Road Development Co., 12,900 ft. 6- to 12-in. c.i. mains in various streets, near here, to John A. McDace Co., 12326 Cloverdale Ave., $20,375. Noted Nov. 17.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, to Builders Iron Fdry., 9 Codding St., Providence, R. I., constructing water meters with corresponding venturi tubes for Missouri River Waterworks at Howards Bend, two 42 in. at $5,418, one 54 in. $3,366; and two 48 in. $8,828. Grand total $17,612. Noted Oct. 13.

Tex., Lockney—See "Unclassified."

Tex., Taylor — Waterworks, incl. distributing system, pumping unit and stor-

See proposal advertising on page 121

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TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

"The World's Playground" has used Leadite with complete satisfaction for over 20 years

ATLANTIC CITY, New Jersey, is proud of its well-paved streets. In laying new or additional cast iron mains, the engineers always use Leadite. They know from the experience of nearly one-quarter of a century that Leadite joints are absolutely secure and that the occasion will not arise where paved streets have to be dug up to repair the line.

In addition to the mains under the paved streets, Leadite was used for jointing the 24" main that runs under the famous boardwalk.

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Mr. L. Van Gilder is Engineer and Superintendent of the Atlantic City water department.

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THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Waterworks (Continued)

age reservoir, to L. L. Stephenson, Laredo, $210,000.

Okla., Tipton—R. A. Parrott, city clk., 40,000 gal. reservoir, air compressor, pump, air lift pumping equipment, 300 ft. 4 in. c.i. mains, etc., to E. W. Baker & Co., Perrine Bldg., Oklahoma City, $14,670. Engrs. est. $15,000. Noted Jan. 13.

Okla., Wewoka — Purification plant, basins, tanks, valves and hydrants, main extensions, etc., to Standard Paving Co., 1742 East 6th St., Tulsa, $98,199. Engrs. est. $125,000. Noted Oct. 20.

Sewers

Proposed Work

N. J., Cranford — Twp. Com. making plans sewer in Lincoln Ave. and James St. $64,000. D. C. N. Collins, Elizabeth, engr.

La., Opelousas — Voted $100,000 bonds, extending sewers in various streets. Noted Apr. 7.

La., Tallulah—Making plans sewerage system. $100,000. H. A. Mentz, Hammond, engr.

O., Columbus—W. H. Duffy, dir. Service, making plans 6,093 ft. 6 and 8 in. vitr. clay sewer in alley west of Dresden Ave., $15,026; also 7,000 ft. alley west of Cleveland Ave., $15,000. R. H. Simpson, City Hall, engr.

Ind., Howell—Vanderburgh Co. making plans and takes bids in January sanitary and storm sewers in various streets, $250,000. W. Hich, Howell, engr.

Ia., Washington—Takes bids in 1928 sewers in various streets. $355,000. H. R. Green, Bever Bldg., Cedar Rapids, engr.

Minn., Kimball—L. Engel, village clk., plans sewerage system. $30,000. Engineer not announced.

Neb., North Platte—Making preliminary plans sewerage system. $39,000. R. S. Nosky, City Hall, engr.

Mo., Golden City—See "Water Works."

Mo., Lebanon—Making plans sewerage system. Russell & Axon, 408 McDaniel Bldg., Springfield, engrs.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, making preliminary plans vitr. clay, segmental tile or brick sewer in North Baden Joint Sewer Dist. 3. $29,000. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, making preliminary plans Southwest Joint Dist. Sewer to drain into Wherry Ave. Sewer at Wherry Creek, 5 mi., 16 ft. rein.-con. pipe. $950,000. W. W. Horner, 300 City Hall, engr.

Tex., Houston—City, c/o O. F. Holcomb, mayor, soon takes bids approximately 8,000 ft. sewers along Buffalo Bayou from Detention Hospital to Shepherd Dam Dr. $50,000. J. C. McVea, city engr.

Tex., Laredo—Takes bids about Dec. 15, extending 18- to 24-in. sewerage system. $60,000. F. C. Heines, city engr.

Okla., Tulsa—P'ans 23,400 ft. 8- to 12-in. vitr. clay sewers in Avondale and Wildwood Additions. $33,723. C. Schultz, City Hall, engr.

Calif., Gilroy — Plans sewerage system. $25,000. H. B. Fisher, Growers Bank Bldg., San Jose, engr.

Calif., Long Beach—Plans vitr. and rein.-con. sewers, pumping stations, etc. in Parker, Pico and Gale Aves., etc. to exceed $500,000; also drainage system in Hill and Atlantic Ave. Dist., etc., $200,000 or more. A. H. Adams, city engr.

Calif., Los Angeles — Los Angeles Co. plans approximately 8 mi. vitr. sewers in Downey Dist. Impvt. 640. $110,000. A. K. Warren, Law Bldg., engr.

Calif., Santa Ana—Plans concrete sewers, etc. in South Sycamore St., etc. To exceed $25,000.

Ont., Toronto—York Twp. making plans two 3,000 sq.ft. sludge beds at Rockcliffe Blvd. Sewage Disposal Plant. $25,000. F. B. Goedike, 40 Jarvis St., engr.

Bids Desired

N. Y., Brooklyn — Nov. 30, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, sewers in 62nd St., 25th and 26th Aves.

N. Y., Long Island City—Nov. 28, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Fisk, 50th (Garfield) and Westchester Aves., Van Gelder, Stoutenburgh (Madison), Vandergrift (Vanduyne) Sts., etc.; sanitary sewer in 150th St. (Three Mile Rd.), etc.

N. Y., Mamaroneck — Dec. 6, by Bd. Village Trustees, Halstead Ave., sewerage system, Contrs. 11, 12 and 13. R. H. Stevens, Larchmont, sanitary engr.; adv. E. N.-R. Nov. 24.

N. Y., Syracuse—Nov. 28, by Bd. Contr. & Supply, City Hall, sewers in Velasko Rd. and Bellevue Ave. N. F. Pitts, Jr., City Hall, engr.

N. J., Keansburg—Dec. 6, by Mayor and Council, approximately 1,800 lin.ft. 8 and 5 in. terra cotta sewers, etc., in various streets. Remington & Vosbury, 509 Cooper St., Camden, consult. engrs.; adv. E. N.-R. Nov. 24.

Tenn., Knoxville—Nov. 29, by Directors Pub. Serv., 600 ft. 8 ft. 6 in. x 8 ft. 6 in. solid rock tunnel, incl. 5 ft. brick or segmental block circular lining and 1,800 ft. 60 in. brick or segmental block open cut, in D. D. Sequoxah Hills, $75,000; also 1,700 ft. ditch and 600 ft. tunnel, concrete or vitr. clay lined, $70,000. W. W. Mynatt, City Hall, engr.

Tex., Laredo—Dec. 6, by City Council, 10,040 lin.ft. 12- to 24-in. sewers, incl. 30 manholes, etc., in various streets. $100,000. F. C. Heines, city engr.

Okla., Tulsa—Nov. 29, by R. J. Moore, city aud., 22,400 ft. 8- to 12-in. vitr. clay sewers in Wildwood Addition. $28,723. C. Schultz, City Hall, engr.

Contracts Awarded

N. Y., Albany—Bd. Contr. & Supply, City Hall, extending Judson St. trunk sewer, to H. Dumary, Inc., 119 State St., $18,320; also sewer in Eileen St., to E. B. Stevenson, 443 Bway., $5,197. Noted Oct. 20.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in 147th St., to J. Gallo, 169-10 State St., Flushing, $218,360; 84th St., to E. J. Kelley, Jr., Flushing, $27,671; 18th Ave., to Kennedy & Smith, Bradford St., Flushing, $6,371; and 107th Ave. to Flushing Contg. Co., 66 Wyoming Ave., Flushing, $501. Grand total $252,903. Noted Nov. 10.

La., New Orleans—Sewerage & Water Bd., 526 Carondelet St., coal pulverizers and burners, to Graham Eng. Co., New Orleans, $87,760; three 4,000 hp. water tube boilers, to Lasker Iron Wks., 3201 South Line St., Chicago, Ill., $184,649; also forced and induced draft fans and preheaters, to Air Preheater Co., 25 Bway., New York City, $69,683. Grand total $342,092. Noted Aug. 25.

O., Dayton—W. W. Morehouse, dir. Water Dept., City Bldg., sewage disposal plant of Imhoff type, to E. E. Latham, 447 Neilston St., Columbus, $677,928. Noted Sept. 29.

Mich., Detroit—Dept. Pub. Wks., Detroit River Interceptor Sewer, Sect. 6, in Franklin and Woodbridge Sts., to Central Contg. & Eng. Co., 17576 Wyoming Ave., $421,160. Noted Nov. 3.

Ill., Chicago—Bd. Local Impvts., Room 207, City Hall, brick and tile sewers with brick manholes and brick catch basins in portions Vanvlissingen Rd., East 95th, 96th, 98th and 97th Places, East 95th, 96th, 97th and 98th Sts., Jeffrey, Euclid and Bennet Aves., to C. Roberts, 6921 Laflin St.

Ill., Specialville—Sewerage system, 8- to 54-in. tile pipe, etc., to Conrad Cannell Constr. Co., Evanston, $318,000. Engrs. est. $365,000. Noted Apr. 28.

Wis., Milwaukee — Sewerage Comn., R. Cramer, ch. engr., 508 Market St., concrete digestor tanks, activated sludge beds, pumps, ejectors, etc., to P. Riesens Sons, 1018 Humboldt Ave., $19,261. Engrs. est. $25,000.

Wis., Milwaukee—Bd. Pub. Wks., R. E. Stoelting, comr., to Zimmermann & Zimmermann, 3402 Wisconsin Ave., sewer in Keefe Ave. $268, Locust St. $7,618, and Melvina St. $277; to Raush & Busse, 918 44th St., Blue Mound Blvd. $5,120, Clermont Ave. $25,847, and 37th Ave. $10,964; to M. D. Dewos, 57 Mineral St., Clarke St., $683; and to H. O. Schaeffer, 752 64th Ave., West Allis, Singer Circle, $4,858. Grand total $63,383.

Mo., St. Joseph—To E. F. Mignery, 1108 Bellevue Ave., extending main sewer in Grand Ave. $1,534; to Riley Constr. Co., 110 North 7th St., St. Louis, sewer in 9th and Pacific Sts., from Missouri River east along Hickory St. to 8th St. and between 12th, 8th, Doniphan and Walnut Sts. $85,826; to O. H. Schmidt, 1st State Bank Bldg., Sewer 162 $871; to H. Devlin, 3084 Felix St., Sewer 140 $3,477, Sewer 110 $831, and Sewer 174 $2,292; also to Judson Eng. & Constr. Co., 1811 Faraon St., Sewer 149 $1,186, and Sewer 127 $948. Grand total $96,965. Noted Nov. 3.

Okla., Ponca City — C. E. Norton, city clk., extending 40,000 ft. sewers in Cross Addition, to W. B. Carter, Sioux City, Ia., $54,571. Engrs. est. $75,000. Noted Oct. 27.

Okla., Wewoka—For 22,600 ft. to 18 in. vitr. clay sewers in various streets, to Standard Paving Co., 1742 East 6th St., Tulsa, $48,210. Engrs. est. $60,000. Noted Oct. 20.

Calif., Inglewood—O. H. Duelke, city clk., to M. A. Skulick, 2018 West 85th St., sewers in Impvt. Dist. 1, 1,289 ft. 18 in. vitr. pipe at $2.45 per ft., 3,824 ft. 15 in. $2.10, 5,566 ft. 12 in. $1.85, 1,047 ft. 10 in. $1.45, and 387 ft. 8 in. $1.10, etc., total $34,405.

Calif., Los Angeles—Rein.-con. sewers in Verdugo Wash. to Roach-Axman Co., 2629 West 8th St., $39,850.

Calif., Oakland—To Fredrickson & Watson, 354 Hobart St., sewers in 72nd, 73rd and Sunnymere Aves., 30,305 ft. 8 in. vitr. pipe at $1.20 per ft., 929 ft. 10 in. $1.35, etc. Noted Oct. 20.

Bridges

Proposed Work

R. I., Providence — Pub. Wks. Dept., making plans concrete bridge, on Roger Williams Ave. S. F. Nolan, city engr.

New Jersey—Bd. Freeholders Hudson Co. (Jersey City), and Essex Co. (Newark), plan bridge over Passaic River, from Arlington to Newark. $100,000. Engineer not selected.

North Carolina — State Hy. Comn., Raleigh, making plans rein.-con. bridges and culverts on Project 6910, Union Co., $68,000; on Project 224, Duplin Co., $50,000; on Project 4090, Durham Co., $60,000; and Project 645, Lincoln Co., $60,000. L. R. Ames, Raleigh, engr.

Miss., Laurel—See "Streets and Roads."

Tenn., Kenton—State Dept. Highways & Pub. Wks., Nashville, takes bids about Dec. 15, 3,000 ft. concrete, steel and treated timber bridge over Obion River, Obion Co., near here. To exceed $25,000. C. N. Bass, highway comr.

O., Cleveland—Cuyahoga Co. voted $7,000,000 bonds, concrete bridge over Cuyahoga Valley, and $1,000,000 bonds, right-of-way. A. M. Felgate, Court House, bridge engr.

Kan., Sedan—Chautauqua Co. soon takes bids Bridge 1, two 120 ft. marsh arch spans; Bridge 2, two 40 ft. deck girder and two 120 ft. truss spans; Bridge 3, one 70 ft. truss and two 25 ft. deck girder spans; and Bridge 4, three 25 ft. deck girder spans, all 20 ft. wide, on Federal Aid Project 384-B. C. E. Fesler, Court House, engr.

Ark., Ozark — State Hy. Dept., Little Rock, making preliminary plans rein.-con., and steel toll bridge over Arkansas River, here. $250,000. C. S. Christian, c/o owner, engr.

Texas—Montgomery Co. (Conroe), c/o W. H. Lee, judge, and Harris Co. (Houston), c/o N. Adkinson, judge, making plans 0.359 mi. concrete bridge and approaches over Spring Creek, on Highway 19. $30,000. A. J. Wise, Court House, Houston, engr.

Tex., Brackettville — See "Streets and Roads."

Tex., Houston—See "Streets and Roads."

Tex., Waxahachie—Ellis Co. voted $50,000 bonds, timber, concrete and steel bridge over Onion Creek, Ellis Co. Eng. Dept., engrs. Noted Oct. 6.

Oklahoma — R. N. Higgins, engr. Beckham Co., Sayre, did not receive bids Oct. 24, 3 steel truss bridges on abutments, one 1 span 40 ft. at Erick, $25,000; one 1 span 50 ft. at Texola, $27,000; and other 1 span 60 ft. at Doxey, $30,000. Action was rescinded. Noted Nov. 13.

Okla., Cordell—State Hy. Dept., Oklahoma City, rejected bids 1 span 96 ft. steel truss bridge on piers over Washita River, on State Aid Project 499-B, highway 41, Washita Co., near here. C. R. Mandigo, Capitol, Oklahoma City, engr. Noted July 7.

Okla., Snyder—State Hy. Comn., Oklahoma City, making plans 1 span 88 ft. steel truss bridge on piers over St. Louis & San Francisco R.R. tracks, Kiowa Co., near here. $45,000. C. R. Mandigo, highway engr.

Colorado—Pueblo Co. (Pueblo) and State Hy. Dept., Denver, plan 3 timber bridges on Siloam Highway; widening 3 bridges on Walsenburg Highway; 1 bridge over Bob Creek at Boone; straightening two mi. Pueblo-Walsenburg Highway, paving 1,000 ft. West 4th St., 50 ft.; also excavating and filling Kansas-Colorado Blvd. $55,000 L. D. Blauvelt, highway engr. W. Barber, clerk, Pueblo Co.

Ore., Portland — City Council making plans and takes bids about Jan. 1, ramp or viaduct on Lovejoy St. between 9th and 14th Sts. $610,000. A. Langard, city engr.

Que., Montreal—Soon takes bids steel and concrete bridge over aqueduct, on 4th Avenue Cote St. Paul. $250,000.

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about *High-Early-Strength* Concrete

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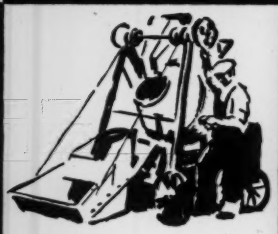

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Concrete for Permanence

Bridges (Continued)

Ont., Sarnia — Sarnia, Ont. and Port Huron, Mich. granted franchise to Harrington, Howard & Ash, engrs., 1012 Baltimore St., Kansas City, Mo., constructing 135 ft. suspension type bridge, 135 ft. clearance in center, two traffic lines, one each way, over St. Clair River, $4,000,000.

Bids Desired

Pa., New Castle — Dec. 12, by Comrs. Lawrence Co., J. R. Lamoree, ch. clk., constructing bridges and roads at Wampun and Chewton; adv. E. N.-R. Nov. 24.

W. Va., Stone Cliff—Dec. 7, by Fayette Co. Court Fayetteville, superstructure bridge over New River, here. J. C. Hurt, clk.; adv. E. N.-R. Nov. 24. Noted Jan. 13.

Fla., Milton — Dec. 2, by State Roads Dept., Tallahassee, 165 ft. concrete deck girder bridge on Project 585-B, Road 1, Santa Rosa Co., point 2 mi. west of here. J. L. Cresap, state highway engr.

O., Cincinnati—Dec. 9, by G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, rein.-con. and encased steel viaduct, here. $2,000,000.

Ind., Anderson — Nov. 30, by Comrs. Madison Co., rein.-con. arch bridge known as Alfonte Bridge, over Lick Creek, on north and south road at Alfonte, $28,728; and rein.-con. bridge known as Pendleton-Newcastle Pike Bridge, on Pendleton and Newcastle Pike, $4,330. C. Forkner, Anderson, aud.

Illinois — Nov. 30, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, 2 rein.-con. bridges on Route 48, Sect. 112-B Iroquois Co., two 24 ft. span rein.-con. girder bridge on Route 49, Sect. 141-B Kankakee Co., one 30 ft. and one 34 ft. rein.-con. girder bridges, also one 24 ft. rein.-con. slab bridge on Route 49, Sect. 143-B Will Co., one 120 ft. rein.-con. substructure, two 30 ft. rein.-con. approach spans and one 20 ft. rein.-con. slab bridge on Route 145, Sect. 101-B, also one 120 ft. steel superstructures on Route 145, Sect. 101-C all Massac Co., one 28 ft. rein.-con. slab bridge also one 30 ft. and one 100 ft. rein.-con. sub-structure on Route 153, Sect. 101-B and one 100 ft. steel superstructure on Route 153, Sect. 101-C all Washington Co. F. T. Sheets, ch. highway engr.

Illinois — Nov. 30, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, one 37 ft. enclosed rein.-con. I-beam and two 35 ft. rein.-con. girder span railroad overhead bridge, on Route 89, Sect. 101-V, Lee Co. F. T. Sheets, ch. highway engr.

Ill., Chicago — Nov. 29, by Bd. Local Impvts., Room 207, City Hall, superstructure single leaf trunnion bascule bridge over north branch Chicago River, Sect. "B" North Robey St. Impvt. M. J. Faherty, pres. Noted Mar. 10.

Kan., Topeka — Dec. 12, by O. B. Eddy, clk. Shawnee Co., Cooper Bridge, one 110 ft. truss and two 30 ft. deck girder spans; Reform School Bridge, one 110 ft. truss and two 30 ft. deck girder spans Button Bridge, one 110 ft. truss and two 30 ft. deck girder spans; also Tomlinson Bridge, one 100 ft. truss span. C. H. Wasson, Court House, engr.

Tex., Decatur—See "Streets and Roads."

Tex., Galveston — See "Contracts Awarded."

Calif., Victorville—Dec. 12, by Supervs. San Bernardino Co. (San Bernardino), removing present bridge and constructing approximately 230 ft. steel arch type span bridge over Majove River, on Victorville-Bear Valley Rd. To exceed $25,000. Noted July 28 under "San Bernardino."

Contracts Awarded

N. Y., Buffalo—Dept. Pub. Wks., Municipal Bldg., substructure bridges crossing in line Bailey Ave., to V. Schiavi, 599 McKinley Parkway, $211,000. Noted Sept. 29.

N. J., Ocean City—Ocean City-Longport Automobile Bridge Co., Ocean City Title & Trust Bldg., substructure and rein.-con. pile trestle, to Frederick Snare Eng. Co., 114 Liberty St., New York City; main bridge, incline and bascule span, to Phoenix Co., Phoenixville, Pa.; also approach embankment and paving, to Eastern Eng. Co., 4 N. N. Carolina St., Atlantic City, N. J. This corrects report in Nov. 10 issue.

North Carolina—State Hy. Comn., Raleigh, rein.-con. bridges, etc., on Project 286, Wayne Co., and Project 604, Alexander Co., to J. L. Brinkley, Thomasville, $29,897 and $46,191 respectively; Project 335, Columbia Co., to J. F. Kitchen, St. Paul, $46,134; Project 625, Iredell Co., to Clement-Dunarant Co., Carlotte, $91,813; and Project 182, Pitt Co., to J. S. Bowers, Whiteville, $127,744. Grand total $341,779. Noted Oct. 27.

La., New Orleans—Dept. Pub. Finances, Purch. Div., City Hall, 2 span 56½ ft. rein.-con. bridge and approaches over 17th St. Canal, on prolongation of Lake side roadway of South Claiborne St., to J. Riess, New Orleans Bank Bldg., $26,550. Noted Oct. 20.

O., Cleveland—Cleveland Union Terminal Co., Marshall Bldg., rein.-con. sub-structure viaduct and runway, Prospect Ave., to Hecker-Moon Co., 8701 Union Ave. Engrs. est. $200,000. Noted May 19.

Illinois—State Dept. Pub. Wks. & Buildings, Div Highways, Springfield, bridge on Route 122, Sect 12.3-B, Mason Co., to Midwest Constr. Co., Washington $21,044; on Route 122, Sect. 123-C, Mason Co., to Continental Bridge Co., 53 West Jackson St., Chicago, $6,919; on Route 142-A, Sect. 101-B, Wayne Co., to Zimmerly Bridge Co., Paris, $17,616; on Route 25, Sect. 7-V, Clay Co., to J. P. Lyon, Robinson, $23,736; on Route 126, Sect. 116-B, Montgomery Co., to Watt Constr. Co., Winchester, $21,984; on Route 49, Sect. 135-B, and on Route 49, Sect. 156-B, Iroquois Co., to Chernus Constr. Co., Sioux City, Ia., $16,742 and $15,845 respectively. Grand total $123,886. Sept. 15.

Ill., Chicago—Cook Co. Highway Dept., 139 North Clark St., to Oltendorf Constr. Co., Palatine, Bismer Bridge in Elk Grove Twp. $7,978, Freeman Culvert, $1,650, Culverts 1 and 2 $1,100, and Tonhy Ave. retaining wall $3,367, to Mohawk Eng. & Constr. Co., Chicago, Hersey and Ellis Bridges in Thornton Twp. $9,982, and Lawrence Ave. Bridge over Des Plaines River $53,251, also to Joliet Bridge & Constr. Co., Joliet, W. E. Kerr Bridge, $12,137. Grand total $99,465.

Ill., Chicago — Clerk Sanitary Dist. of Chicago, 910 South Michigan Ave., fabrication, erection and completion double leaf trunnion bascule bridge over Main Drainage Canal Sanitary Dist. of Chicago, at Crawford Ave., Contr. 2, to Kettler-Elliott Co., 3121 South California Ave., $427,453. Noted Sept. 29.

Nebraska—See "Streets and Roads."

Arkansas—State Hy. Dept., Little Rock, 388 ft. rein.-con. bridge on Highway 22, Sect. 4, Logan Co., to Maxwell Constr. Co., Columbus, Kan. $26,074, 63 ft. rein.-con. bridge on Highway 35, Sect. 5, Cleveland Co., to C. H. Atkinson, Chillicothe, Mo., $5,917, 514 ft. bridge on Highway 101, Sect. 2, Marion Co., to Blackshire & Blackshire, Harrison $31,030, 180 ft., rein.-con. bridge Highway 18, Sect. 4, Craighead Co., to Bunnell & Mack, Paragould $15,780, and 290 ft. timber bridge on Highway 50, Sect. 1, St. Francis Co., to United Constr. Co., 408 Lyric Bldg., Cincinnati, O. $8,327. Grand total. $87,128.

Ark., Georgetown — Missouri & North Arkansas R.R., H. J. Armstrong, ch. engr., Harrison, reconstructing pivot pier and 300 ft. draw span bridge over White River, near here, to List & Weatherly Constr. Co., Railway Exch. Bldg., Kansas City, Mo.

Tex., Galveston — Gulf Coast Dredging Co., 2311½ Ave. C, will build 1,500 ft. creosoted pile bridge, 50 ft., with swing span in center over West Galveston Bay connecting with Pelican Spit., by day labor. $150,000. J. E. Jacobson, 2311½ Ave. C, engr. Noted Nov. 3.

Oklahoma—State Hy. Dept., Oklahoma City, **(F. A. P. means Federal Aid Project, S. A. P. State Aid Project and e. e. engineers estimate)**, 3 span 300 ft. steel truss bridge on piers, 58,400 lb. reinforcing, 727 ft. concrete hand rail, etc., on S. A. P. 503-C, near Jett, Alfalfa Co., and 6 span 220 ft. rein.-con. trestle bridge, 61,920 lb. reinforcing, 843 ft. concrete hand rail, etc., on F. A. P. 213-A, near Sayre, to H. B. Garrett, 1413 West Main St., Oklahoma City, $35,014 and $39,834 respectively, e. e. $40,000 each; 2 span 140 ft. steel truss bridge on piers, 39,430 lb. reinforcing, 364 ft. guard rail, near Lawton, Comanche Co., to Inter-State Constr. Co., Lawton, $22,570 e. e. $28,000; 2 span 146 ft. steel truss bridge on piers, 53,149 lb. reinforcing, 532 ft. hand rail, etc., near Tonkawa, Kay Co., to Pioneer Constr. Co., Orear-Leslie Bldg., Kansas City, Mo., $38,650 e. e. $45,000; 1 span 65 ft. rein.-con. trestle bridge, one Hobart-Goteba Rd., Kiowa Co., to T. C. Ottinger, Hinton, $15,446 e. e. $25,000; 5 span 120 ft. rein.-con. trestle bridge, 18,220 lb. reinforcing, 262 ft. guard rail, etc., on S. A. P. 485-B, Marshall Co., to Whitson & Kirley, Ardmore, $23,575 e. e. $25,000; and 1 span 106 ft. steel truss bridge on piers, 34,310 lb. reinforcing, 309 ft. guard rail, etc., on F. A. P. 151-F, near Muldrow, Sequoyah Co., to James & Hopper, Wilburton, $17,039 e. e. $25,000. Grand total $192,128. Noted Oct. 27.

Dams

Proposed Work

Tex., Casa Piedra—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Tex., Georgetown—Georgetown Country Club soon lets contract 5 mi. earthen dam, 8 ft. high, Gabriel River. $35,000. Private plans.

Wash., Olympia—See "Unclassified."

Ore., The Dalles—See "Waterworks."

Bids Desired

N. Y., Hadley—Dec. 5, by Bd. Hudson Regulating Dist., 44 Howard St., Albany, constructing Conklingville Dam, Contr. 4, 147,000 cu.yd. earth and 115,000 cu.yd. rock excav., 704,000 cu.yd. embankment, 69,000 cu.yd. rock fill, 14,000 cu.yd. plain concrete, here. E. H. Sargent, ch. engr.; adv. E. N.-R. Nov. 24. Noted Mar. 17 under "Conklingville."

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

N. Y., Howard Beach (br. Jamaica)—M. Cosgrove, Pier "A," Battery Pl., New York City, rejected bids Nov. 14, dredging channel at Howard Beach, Jamaica Bay, here. Noted Nov. 10.

Ill., Evanston—Making preliminary plans 3,735 ft. seawall and jetties along Lake Front. A. W. Handford, City Hall, engr.

Texas—Hidalgo and Cameron Co. Water Control & Impvt. Dist. 9, c/o E. C. Rothrock, Mercedes, plans flood prevention and irrigation project, 90,000 acres land, in towns Weslaco, Edcough, Elsa, Lavilla and Mercedes. $4,500,000. Private plans.

Tex., Casa Piedra—C. L. Vasquez making surveys, etc. irrigating lands near Almiro River, tributary of Rio Grande River, to impound 480-acre ft. water annually, incl. dam, etc. in Presidio Co. $40,000. Private plans.

Tex., Ft. Worth — Tarrant Co. Water Control League, making plans flood control and water supply, incl. reservoir at Eagle Mountain and another near Bridgeport in Wise Co. $6,500,000. Hawley & Freebe, 411 Caps Bldg., engrs.

Tex., Richmond—Brazos Valley Irrigation Co., Sugarland, plans irrigating approximately 50,000 acres land, constructing series canals, etc., in Ft. Bend Co., here. $100,000 or more. Private plans.

California—F. H. Tibbetts, Alaska Commercial Bldg., San Francisco, engr. Reclamation Dist. 2047, prepared preliminary plans reconstructing 15 mi. lower half of Sacramento River levee from Colusa to Princeton. $276,000.

Contracts Awarded

N. C., Wilson — Mayor and Bd. City Comrs., excavating 70,000 cu.yd. in Hominy Swamp, to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh. Noted Sept. 1.

Louisiana — State Hy. Comn., Baton Rouge, constructing embankment on Chef Menteur Highway, Federal Aid Project, 201-G, Unit 1, St. Tammany Parish, to Gulf Coast Dredging Co., Galveston, $111,771. Noted Oct. 6.

La., New Orleans—R. B. Kohnke, engr., Orleans Levee Bd., New Court House Bldg., reconstructing St. Andrew Levee in Mississippi River between Jackson Ave. and Nun St., to Highway Constr. Co., Godchaux Bldg., $94,000. Noted Oct. 6.

Ia., Ft. Madison—L. G. Keil, aud. Lee Co., repairing Green Bay Levee, near here, raising levee, to W. Sillick, Wapello, $18,000; bank protection, to L. Plumb, Wapello, $10,000; and ditch cleaning, to C. E. Walker, Wapello, $18,000. Grand total $46,000.

Ark., Scott—Old River Drainage Dist., c/o A. L. Alexander, chn., excavating approximately 67,000 cu.yd. new levee, etc., to Harvey Brown Constr. Co., North Little Rock, $0.26 cu.yd.

Calif., Sausalito—M. F. Seymour, secy. Tamalpais Union High School Dist., dredging 75,000 yd. school athletic field fill, to Amer. Dredging Co., 255 California St., San Francisco, at $0.355 per cu.yd. Noted Nov. 17.

Constr. News page 261

15 — POINTS that mean PERMANENCE and ECONOMY in your Concrete Sewers!

1 Independent concrete pipe is built on the job, or near by—saving time and money; benefiting local business

2 Lower in first cost

3 Costs less to install

4 Joints are easier to seal

5 Little or no upkeep

6 Serves for centuries

7 Resists deterioration

8 Provides maximum flow

9 Prevents sewer leakage

10 Strength for any load

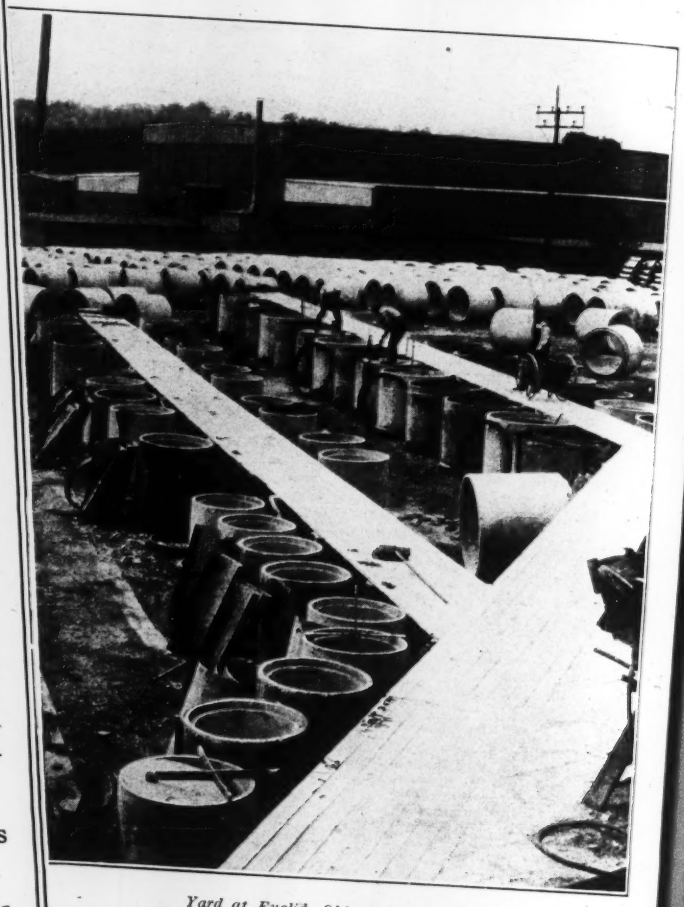
11 Sizes 24 in. to 108 in.

12 Lengths, 4 ft. and 5 ft.

13 Used for years by leading cities and contractors

14 Endorsed by engineers everywhere

15 Backed by America's largest exclusive builder of reinforced concrete sewer pipe.



Yard at Euclid, Ohio, where Independent Concrete Pipe were built for Euclid Ave. sewer.

INDEPENDENT CONCRETE PIPE CO.
202 N. West St., Indianapolis, Ind.

INDEPENDENT
Reinforced Concrete Pipe

Streets and Roads

Proposed Work

Mass., Boston—See "Unclassified."

Mass., Salem—Plans laying out and building Canal St. extension, $25,000 appropriated. Private plans.

R. I., Providence — Plans constructing Nelson and Transit Sts., as highways, and curbing Grand Bway., Lyndhurst Ave., and 3rd St. $25,000 or more. Private plans.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, rejected bids Nov. 10, grading and sheet asphalt paving West 9th St. and 9th Ave. Will readvertise. Noted Nov. 3.

N. J., Lavallette — Boro, G. D. Homer, clk., plans concrete sidewalks on Ortley, Magee, Washington, White, Guyer, Bond, Brooklyn and New Brunswick Aves. $30,000.

Maryland — State Roads Comn., Baltimore, rejected bids Sept. 27, concrete paving 1 mi. Contr. M-93, Montgomery Co.; and 1 mi. Contr. F-85, Frederick Co. J. N. Mackall, chn. Noted Sept. 22.

W. Va., Gassaway—Voted $25,000 bonds, concrete paving Main St. S. Fox, recdr.

North Carolina—State Hy. Comn., Raleigh, making plans clearing, grading, etc., 4.148 mi. Project 948, Howard Co. $36,500, 5.261 mi. Project 645, Lincoln Co. $31,500, 14.576 mi. Project 6910, Union Co. $74,000, 4.186 mi. Project 917, Cherokee Co. $33,000, 18.623 mi. Project 224, Duplin Co. $102,000, and 10.063 mi. Project 4090, Durham Co. $70,000; grading and concrete or asphalt paving 4.71 mi. Project 4720, Vance Co. $108,000, 9.06 mi. Project 551, Hoke Co. $152,200, 9.659 mi. Project 8260, Cleveland Co. $200,000, 6.5 mi. Project 4441, Lee Co. $150,000, 7.94 mi. Project 3930, Robeson Co. $133,000; also clearing, grading, and small rein.-con. structures on 3.857 mi. Project 595, Rockingham Co. $25,500. L. R. Ames, Raleigh, engr.

Ga., Brunswick — Voted $75,000 bonds, paving various streets.

Miss., Canton—Madison Co. voted $2,000,000 bonds, grading, g'raveling and concrete surfacing various roads. H. C. Dietzer, Jackson, highway engr.

Miss., Laurel—Jones Co. voted $75,000 bonds, maintenance work, bridging, graveling, etc. 10 mi. Bay Springs-Laurel Rd. H. C. Dietzer, Jackson, highway engr.

Miss., Pontotoc—Pontotoc Co., making plans graveling Bankhead Highway from here south towards Houston to Chicasaw Co. line near Houlka, and surfacing Pontotoc-Oklona Highway. $600,000. H. C. Dietzer, Jackson, highway engr.

La., Delhi—Voted $65,000 bonds, grading, curbing and paving various streets. $65,000. C. D. Evans, Levy Bldg., Shreveport, engr.

La., Marksville—Avoyelles Parish voted $35,000 bonds, grading and paving various roads in Dist. 4.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, takes bids probably in December, paving 12 mi. Huntingdon-McKenzie Rd. C. N. Bass, highway engr.

Tenn., Worthburg — Morgan Co. voted $238,000 bonds, improving 15 mi. Worthing-Roane Co. line Rd.

O., Akron—W. F. Peters, dir. Pub. Serv., takes bids after Jan. 1, grading, curbing, walks and vitr. brick paving, etc. 7,545 sq.yd. Woodward Ave. $51,000. E. A. Kemmler, Municipal Bldg., engr.

O., Cleveland—See "Bridges."

O., Columbus—W. H. Duffy, dir. Service, making plans widening and asphalt repaving, etc. approximately 800 ft. West Spring St., $40,000; also widening and asphalt or brick paving, etc. 1,100 ft. East Gay St., $36,000. R. H. Simpson, City Hall, engr.

Ind., South Bend—Comrs. St. Joseph Co. making plans concrete paving 4.75 mi. Liberty Highway, $169,220. R. J. Lang, South Bend, engr.

Mich., Detroit—Making plans stone or concrete curbing, and sheet asphalt on 8 in. concrete paving 49,510 sq.yd. Russell St. and 13 avenues, $204,990. P. A. Fellows, city engr.

Ia., Centerville—Grand River D. D., Decatur Co. making plans 4.13 mi. ditch 140,000 cu.yd. excav., etc. $40,000. M. G. Hall, Centerville, consult. engr.

Minn., International Falls—Making plans paving 24,000 sq.yd. various streets. $60,000. P. C. Warner, city engr.

Kan., Dodge City—Ford Co. soon takes bids grading and sand clay surfacing 9.424 mi. US. Rd. 50-S, State Project 64. J. W. Thornburgh, Court House, engr.

Kan., Hutchinson—Reno Co. making preliminary plans widening and grading, etc. approximately 10 mi. Medora highway between Medora and Hutchinson, 15 ft. W. A. Stacey, Court House, engr.

Kan., Lincoln—Lincoln Co., made plans grading, etc. 6.846 mi. Federal Aid Project 362-E, 28 ft. A. J. Francis, Jr., Court House, engr.

Kan., Topeka—Shawnee Co. made plans grading and concrete paving 5.103 mi. U. S. Road 40, State Project 45, 18 ft. C. H. Wasson, Court House, engr.

Kan., Topeka—Shawnee Co. plans grading, concrete paving, and 4 bridges on 5.258 mi. U. S. Highway 40, State Project 45-B, 18 ft. C. H. Wasson, Court House, engr.

Kan., Ness City—Ness Co. making preliminary plans grading and bridging, etc. 15.151 mi. Road K-96, 28 ft. L. L. Hunt, Court House, engr.

Missouri—State Hy. Comn., Jefferson City, making plans 30 ft. grading approximately 103 mi. roads in 18 counties. T. H. Cutler, ch. engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, making preliminary plans grading and concrete paving Landsdowne Ave. between Watson Rd. and McCausland St., $28,620, also grading between building lines between McCausland St. and city limits, $11,660. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, making preliminary plans grading and concrete paving approximately 19,600 sq.yd. alleys in City Blocks 1579, 2824, 3712, 4390-A, 5277, 5457, 5458, 5744, 5939, 6041, 6042, and 188. $54,000. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, made preliminary plans grading, curbing and alternate types paving, etc. Fendler Pl., Estella, Fyler, Marcus, Montrose and Greer Aves., 8th, Howel, Lena, O'Meara, Alaska, Alabama, Theresa, Palm, Labadie and Vandeventer Sts. W. W. Horner, 300 City Hall, engr.

Tex., Archer City—Archer Co. made plans grading and one bridge over 20 ft. span, on 8.978 mi. Highway 79, Federal Aid Project 532-D, Unit 1, 26 ft. $32,338. G. R. Johnson, Archer City, engr.

Tex., Batesville—Zavalla Co. made plans grading and bridging 31.2 mi. Highway 55, 26 ft. $90,600. G. M. Jowers, 456 Kayton Ave., San Antonio, and Crystal City, engr. Noted Oct. 20.

Tex., Bellville—Austin Co. made plans rein.-con. Bates type paving 9.16 mi. Highway 36, Federal Aid Project 433-A, Unit 2, 18 ft. $200,000. H. Schroeter, Bellville, engr.

Tex., Brackettville—Kinney Co. making plans grading and 8 bridges over 20 ft. span on 18.711 mi. Highway 3, 26 ft. $128,300. W. F. Hutson, Brackettville, engr.

Tex., Canyon—Randall Co. making plans grading and bridging 5.522 mi. State Highway 9 from Canyon City north, 26 ft. Engrs. est. $30,000. R. E. Dyatt, Canyon, engr.

Tex., Clairmont—Kent Co. making plans grading and bridging, 22.467 mi. State Highway 84 from Clairmont to Fisher Co. line., 26 ft. $124,500. Nagle, Witt, Rollins & Gilchrist, Allen Bldg., Dallas, engrs.

Tex., Corsicana—Navarro Co. voted $135,000 bonds, constructing various roads, etc. Address W. Hicks, Corsicana, judge.

Tex., Galveston — Making preliminary plans paving 10 blocks Ave. B, from 8th to 16th Sts. Engrs. est. $50,000. C. A. Holt, Galveston, engr.

Tex., Graham—Young Co. making plans grading and bridging 12.164 mi. Highway 24, 26 ft., $90,000. G. R. Johnston, Graham, engr.

Tex., Groesbeck — Limestone Co. takes bids about Dec. 1, concrete and asphalt paving 7.5 mi. Highway 14 from Freestone Co. line to Mexia and north of Navasota River. $175,000. C. L. Williford, Mexia, engr.

Tex., Houston—Harris Co. making plans grading and bridging 10.326 mi. Highway 6, Federal Aid Project 466-B, Unit 1, 26 ft. $70,000. A. J. Wise, Court House, Houston, engr.

Tex., Laredo—Takes bids in January, alternate types paving approximately 50 blocks, various streets. $175,000. F. C. Heines, city engr. M. M. Leyendecker, Jr., assists in preparing the plans. Noted Sept. 29.

Tex., Madisonville—Madison Co. voted $800,000 bonds, hard paving approximately 24 mi. main highway between Dallas and San Antonio. Address S. S. Strahan, Madisonville, co. engr.

Tex., Mexia — Defeated $50,000 bonds, paving various streets. J. G. McIntosh, city mgr.

Tex., San Antonio—See "Unclassified."

Tex., Sweetwater—Nolan Co. making plans 2½ in. bituminous macadam on gravel surfacing 3.783 mi. Highway 70, Federal Aid Project 511-A, 26 ft. $89,500. S. C. Dougherty, Sweetwater, engr.

Oklahoma—State Hy. Dept., Oklahoma City, rejected bids Nov. 8, grading and rein.-con. or 2½ in. brick on 5 in. concrete paving 71,797 sq.yd. Bristow-De Pew Rd., Federal Aid Project 136-D, Creek Co. $175,000. C. R. Mandigo, Capitol, Oklahoma City, engr. Noted Nov. 3.

Okla., Ada—Making plans grading, curbing and 6 in. concrete paving 9,875 sq.yd. streets in Dist. 24. $31,319. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Okla., Clinton—Plans grading and 6 in. concrete paving 9,600 sq.yd. various alleys. $29,000. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Fairview—Plans grading and 6 in. concrete paving 9,200 sq.yd. 7th St. $29,107. E. A. Jones, Enid, engr.

Okla., Frederick—Plans grading, curbing and 6 in. concrete paving 9,200 sq.yd. Dahlia Ave. $30,000. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Oklahoma City—Rejected bids grading and paving 26 blocks Bath, Kelham, Rhode Island and Nebraska Sts., 26 ft. $98,621. Noted Sept. 1.

Okla., Prague — Making plans grading, curbing and 7 in. concrete paving 12,400 sq.yd. Park and Main Sts. $37,242. Long & Co., 1300 Colcord St., Oklahoma City, engrs.

Okla., Sallisaw—Voted $110,000 bonds, paving 26 blocks Dist. 1, 26-40 ft. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Welcetka—Defeated $25,000 bonds, grading and paving 4 blocks Chickasaw Ave. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Nov. 3.

Colorado—State Hy. Dept., Denver, plans concrete paving 3 mi. road between Pinon and El Paso Co. line, Pueblo Co., 16 ft. $110,000. L. D. Blauvelt, highway engr.

Calif., Compton—Plans 5 in. vibrolithic concrete paving, etc. 6th and Peach Sts., etc. To exceed $25,000. G. Rood, city engr.

Calif., Los Angeles — Plans extending North Figueroa St., incl. tunnels under Eylsian Park. $3,000,000. J. Shaw, city engr.

Calif., Lynwood—Plans curbing, walks and 6 in. concrete paving, etc. Golden Ave. and Louise St., etc. To exceed $25,000.

Calif., San Diego — Common Council plans curbing, surfacing, walks and 6 in. asphaltic concrete paving, etc., 125,310 sq. ft. Dewey and 26th Sts.; curbing, walks and 7 in. concrete paving, etc., 511,807 sq. ft. Main, Beardsley and 26th Sts.; also grading, curbing, walks, 6 in. asphaltic concrete paving 347,462 sq.ft. and 6 in. concrete paving 185,989 sq.ft. Everett Ave., 28th and Sampson Sts., etc. H. W. Jorgensen, city engr.

Calif., San Mateo—City Trustees take bids about Dec. 5, grading, paving, curbing and concrete paving, etc. 111,000 sq.ft. Woodside St., etc. O. F. Weissgerber, city engr.

Ont., Strathroy—Middlesex Co. (London), making plans concrete paving 20,000 sq.yd. Caradoc and Metcalfe Sts., here. $65,000. G. Talbot, County Bldgs., London, engr.

Ont., Toronto—Making plans brick block on concrete paving 1,900 ft. Caledonia Ave., $34,673; also brick guttering and asphalt on concrete paving 700 ft. Sydney Ave. $12,715, both 28 ft. F. B. Goedike, 40 Jarvis St., engr.

Ont., Toronto—York Twp. making plans concrete curbing, guttering, and bituminous concrete on concrete paving Clovelly Ave. $25,000. F. B. Goedike, 40 Jarves St., engr.

Bids Desired

Connecticut—Nov. 30, by J. A. Macdonald, comr., State Hy. Dept., Hartford, rein.-con. paving roads in Haddam, North Branford, North Haven, Glastonbury, Norwalk, Milford, Danbury, Ridgefield, and Newton; waterbound macadam paving roads in Washington, Clinton, Westbrook and Mansfield; and steel sheet piling bulkhead and dredging basin at Guilford Sluice, in Guilford; adv. E. N.-R. Nov. 24.

N. Y., Brooklyn—Nov. 30, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, grading and flagging Pitkin and Franklin Aves., 63rd and East 19th Sts.; grading and granite block paving Lombardy St.; grading and asphalt paving Colonial Rd., Kenmore Pl., Engert Ave., Avenues T and M, East 32nd, 1st, 59th, 85th and 53rd Sts.

N. Y., Long Island City — Nov. 28, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading and sidewalks on 103rd (Kimball) Ave. and Hosack St.; grading and granite block on concrete paving South Jane St.; also grading and sheet asphalt paving 90th Ave. 109th, Hosack Sts., etc.

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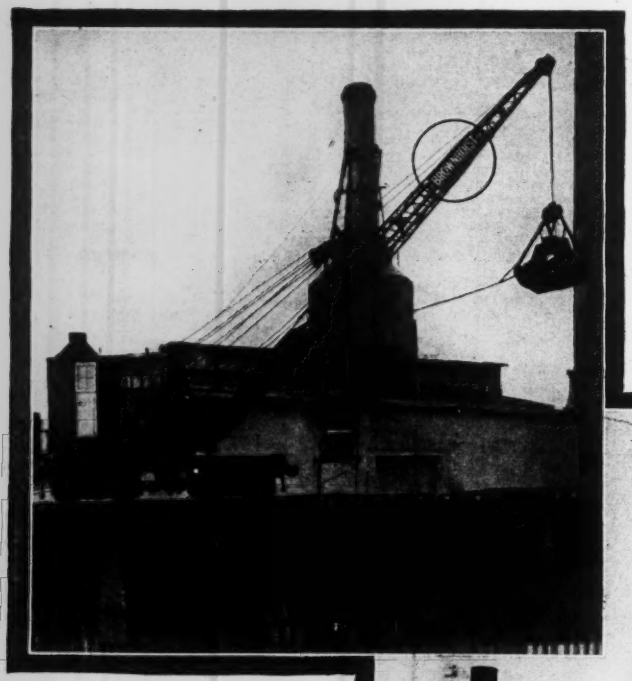
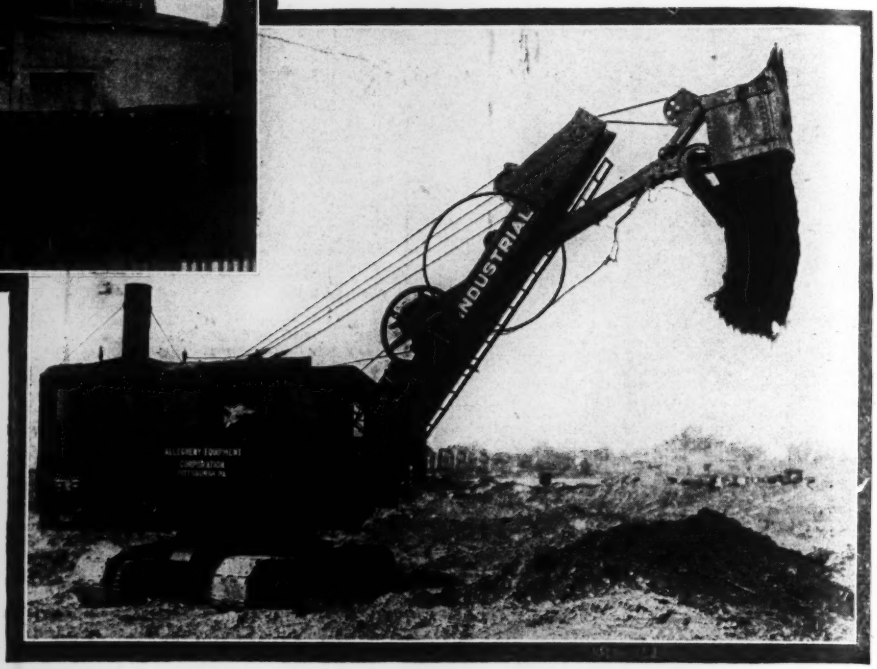
Dependable Trade-Marks for 50 Years





Above—Twenty-ton capacity steam locomotive crane.

At Right—Fifteen-ton capacity steam shovel crane. Also furnished with gas engine or electric power.

No company can offer you the wide choice of cranes for your work and none has had the long and valuable experience of Industrial Brownhoist in the economical handling of materials with crane equipment.

Industrial Brownhoist builds many different types of locomotive and wrecking cranes that range in capacity from 7½ to 200 tons. We also build crawler cranes and shovels, all of which types have proved their dependability in the hands of a great number of owners.

Economical handling is no problem if you have dependable equipment to do the work. Our sales engineer, who is located near you, would like to talk over your material handling methods with you. May he call?

Industrial Brownhoist Corporation

General Offices: Cleveland, Ohio.

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INDUSTRIAL BROWNHOIST

Streets and Roads (Continued)

N. Y., New York—Nov. 29, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., constructing roadway from Bronx River Parkway near East 229th St. to connect with Bronx River Parkway near 233rd St.

N. J., Cape May — Dec. 14, by Bd. Freeholders Cape May Co., gravel on sand fill resurfacing 44,093 sq.yd. Meadow Section Sea Isle Blvd., Dennis Twp. R. F. Smith, Marmora, co. engr.; adv. E. N.-R. Nov. 24.

Pa., New Castle—See "Bridges."

Md., Baltimore—Dec. 30, by Bd. Awards, sheet asphalt paving 9,850 sq.yd. streets listed Contr. 442. N. L. Smith, City Hall, highways engr.

Ala., Birmingham — Dec. 20, by City Comn., 2 in. asphalt on 5 in. concrete paving, etc., 10 blocks 50th St., 14th Ave. and Woodlawn Rd. $70,950. A. J. Hawkins, city engr.

Ala., Birmingham — Dec. 30, by City Comn., curbing, guttering, walks and 2 in. asphalt on 5 in. concrete paving, etc., 16 blocks 10th Ave. N., $98,500, and 2 in. asphalt on 5 in. concrete paving, etc., 1 block 48th St. $6,850, both 40 ft., also 2 blocks Ave. Z, Ensley $12,560, 6 blocks 21st Ave. N., and Scouts Rd. $32,520, both 30 ft.; also 5 in. concrete paving 1 block Aberdeen Rd. $1,980, and 1 block 9th Court Alley S., $1,570, both 20 ft. A. J. Hawkins, city engr.

Miss., Brookhaven—Taking bids paving various streets. $100,000. Address City Engineer.

Louisiana—Dec. 15, by State Hy. Comn., Baton Rouge, 2 in. Warrenite bitulithic, 2 in. bituminous concrete (modified Topeka type) or 2½ in. sheet asphalt wearing surface on 7-5-7 in. concrete paving 12.935 mi. Bossier City-Arkana Highway, Federal Aid Project 154-A, Bossier Parish. N. W. Bowden, highway engr.

Louisiana—Dec. 22, by State Hy. Comn., Baton Rouge, graveling 6.057 mi. Albany-Hammond Cut-off Highway, State Project 575, Livingston and Tangipahoa Parishes, N. W. Bowden, highway engr.

Tenn., Knoxville—Nov. 29, by Director Pub. Serv., curbing, guttering and 3,000 sq.yd. concrete sidewalks on various streets, $25,000; also asphaltic concrete paving 4,900 sq.yd., and surface treated macadam paving 3,300 sq.yd. various streets, $50,000. W. W. Mynatt, City Hall, engr.

Ind., Crawfordsville—Dec. 6, by Comrs. Montgomery Co. at office B. E. May, aud., concrete paving R. L. Rose et al. Rd. $44,526, George Shackelford et al, Rd. $13,102, Paddock, Schoen & McManama, et al. Rd. $19,227, John H. McClure et al. Rd. $34,933, and G. W. Corn et al. Rd. $26,891.

Ind., Evansville—Dec. 5, by Comrs. Vanderburgh Co., grading and bituminous macadam paving Darmstadt Rd. $143,780. S. Bell, Evansville, aud.

Ind., Wabash—Dec. 6, by Comrs. Wabash Co., Court House, grading and graveling 14,165 ft. Jos. L. Elliott et al. Rd. $27,593, and 4,181 ft. Nathan Gilbert et al. Rd. $6,736. W. Beauchamp, Wabash, aud.

Illinois—Nov. 30, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete, vitr. brick with asphalt filler, or bituminous concrete paving 0.56 mi. Route 14, Sect. 5-X, Franklin Co., 0.55 mi. Route 48, Sect. 112, Iroquois Co., 6.58 mi. Route 49, Sect. 141, Kankakee and Will Counties, 5.16 mi. Route 49, Sect. 142, Will Co., 4.71 mi. Route 49, Sect. 143, Will and Cook Counties, 3.27 mi. Route 102, Sect. 102, Adams Co., 3.98 mi. Route 116, Sect. 109, Woodford Co., 4.1 mi. Route 145, Sect. 101, Massac Co., and 5.63 mi. Route 153, Sect. 101 Washington Co.; also grading 1.45 mi. Route 145, Sect. 101-A, Massac Co. F. T. Sheets, ch. highway engr.

Illinois — Nov. 30, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, paving 5.3 mi. Route 131, Sect. 109; and grading 5.9 mi. Route 131, Sect. 108-A, both Cumberland Co. F. T. Sheets, ch. highway engr.

Ia., Marshalltown—Nov. 30, at office Auditor Marshall Co., improving Laurel-Gilman Rd., 55,000 cu.yd. excav., 20,000 units overhaul, etc. D. C. Elder, Marshalltown, co. engr.

Tex., Decatur—Wise Co., c/o C. Faith, co. judge, Decatur, taking bids grading and bridging 6.05 mi. Highway 39, State Aid Project 753-B. O. W. Hunn, Decatur, engr.

Tex., Houston—Dec. 1, by Harris Co., c/o H. L. Washburn, aud., asphalt topping Market St. Rd., Sect. 2, 87,062 gal. asphalt, etc. $26,000. Howe & Wise, Court House, engr.

Okla., Oklahoma City—Taking bids grading, curbing and 7 in. concrete paving 18,210 sq.yd. 16th, Sycamure, Bath and Kelham Sts. $57,816. B. M. Hart, City Hall, engr.

Okla., Oklahoma City—Nov. 29, by M. Feshek, city clk., grading, curbing and 7 in. concrete paving 7,660 sq.yd. Dean Pl., East 14th St., and Phillips Ave. $29,462. B. M. Hart, City Hall, engr.

Wash., Burlington—Dec. 4, by City Council, concrete sidewalks and paving Orange Ave., Alder St., et al. $40,000.

California—Dec. 5, by State Hy. Dept., Sacramento, grading and crushed gravel or stone surfacing, etc., 11.8 mi. roadway between Little Sycamore and Latigo Creeks; also approximately 21.4 mi. pipe line between Bicolas Creek and Los Angeles, all foregoing in Ventura and Los Angeles Counties. R. M. Morton, Strub Bldg., Sacrameto, engr.

Calif., San Diego—Dec. 5, by Common Council, grading, curbing, walks and 6 in. asphaltic concrete paving, etc., 240,203 sq. ft. Robinson Ave., etc. H. W. Jorgensen, city engr.

Calif., San Luis Obispo—J. Driscoll, clk. San Luis Obispo Co., taking bids grading, guttering, walks and asphaltic concrete paving, etc. 134,720 sq.ft. Rd. Dist. Impvt. 4. To exceed $30,000.

Calif., San Mateo—Dec. 5, by City Trustees, 4 in. concrete walks and 6 in. concrete paving, etc. 86,000 sq.ft. Studio Tract sub-division. O. F. Weissgerber, city engr. Noted Oct. 27.

Calif., Ventura — L. E. Hollowell, clk. Ventura Co., taking bids surfacing, etc., approximately 190,000 sq.ft. Santa Ana Rd. C. W. Petit, co. surv.

Calif., Yuba City—Dec. 6, by A. Brown, clk. Sutter Co., grading and asphalt surfacing, etc. 74,000 sq.yd. Walton Ave., etc., Dist. Impvt. 3. O. W. Lanzendorf, Yuba City, co. engr. Noted Nov. 3.

Contracts Awarded

Mass., Boston—Dept. Pub. Wks., Boston, sheet asphalt paving Aldrich St., etc., Wards 20 and 11, to C. Caponi, 11 Hemlock St., Roslindale, $29,138. Noted Oct. 27.

Mass., Boston—Park Dept., 33 Beacon St., grading Fens, Back Bay Dist., from J. C. Coleman & Sons Co., 1620 Tremont St., $25,940. Noted Nov. 3.

N. Y., Albany—Bd. Contr. & Supply, City Hall, to E. B. Stevenson, 443 Bway., improving Homestead Ave., $14,900, Joelson Court $26,684, and Helderberg Ave. $4,320, to Sheehan Contg. Corp., 51 Chapel St., Ryckman Ave. $21,454; and to M. F. Dollard, Jr., 87 Lexington Ave., grading Magazine St. $8,057, and concrete walks on McAlpin St. $1,782. Grand total $77,197. Noted Oct. 20.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, grading, curbing and flagging Autumn and Troy Aves., to R. Lynster, 454 East 49th St., $2,208 and $1,927 respectively. Noted Nov. 3.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to Welsh Bros. Contg. Co., 32 Queens St., Astoria, grading and paving 43rd Ave. $2,239, 56th St. $3,474, and 149th Pl. $2,375; to C. Kurth, 9519 126th St., Richmond Hill, 143rd St. $4,304, 139th St. $3,712, and 156th St. $1,481; to J. D'Amato, 220 Beach and 80th St., Rockaway, Jamaica Bat Blvd.; to J. J. O'Brien, Jr., Williams St., Jamaica, 144th Pl. $4,190, 29th St. $1,536, and Myrtle Ave. $1,488. Noted Nov. 10.

N. Y., Syracuse — Bd. Contr. & Supply, widening and paving Hickory St. and West Fayette Ave., to T. J. Cadin, Syracuse, $11,152 and $26,535 respectively; Erie Blvd., to Dempsey & Ballard, Syracuse, $75,132; Blossom Rd., etc. to J. H. Gallup Co., Merchants Bank Bldg., $28,611; and Buternut Tracy Sts., etc., to G. B. Dickinson, Union Bldg., $23,165. Grand total $164,595. Noted Sept. 22.

New Jersey—State Hy. Comn., Trenton, grading and rein.-con. paving 3.5 Route 41 (Revision 1927) Sect. 1, Fairview to Runnemede, Gloucester and Camden Counties, to M. Staub, Pitman, $306,502. Noted Oct. 27.

Maryland — State Roads Comn., Baltimore, concrete paving 1.96 mi. Contr. AA-50, Anne Arundel Co., to Christhilf & Ensey Co., 1625 Ridgley St., Baltimore, $37,427; and macadam resurfacing 2.77 mi. Contr. H-58, Harford Co., to H. T. Campbell & Sons Co., Towson, $46,484.

Ala., Birmingham — City Comn. (**e.e. means engrs. est.**), to H. N. Bowdry, Alabama Power Co. Bldg., 2 in. asphalt on 5 in. concrete paving, etc. 9 blocks Graymont Ave., 30 ft., $44,924 e.e. $81,700, and 2 blocks 50th St. from 1st Ave. N. to Georgia Rd. 40 ft., $13,446 e.e. $14,500; to Morgan-Hill Paving Co., Woodward Bldg., 6 blocks Ave. G, Ensley, 30 ft. $20,891 e.e. $23,500, 1 block 7th St., Ensley, 40 ft. $5,642 e.e. $6,700, and 6 blocks Ave. H, Ensley, 20 ft. 18,006 e.e. $20,500; to Concrete Service Co., 4717 1st Ave. N., 4 blocks 80th Pl., 30 ft. $17,349 e.e. $19,350, and 8 blocks 3rd Ave. S., 85th and 86th Sts. $39,776 e.e. $42,000, to Southern Roads Co., Pioneer Bldg., 4 blocks 50th St. from 1st Ave. N. to 5th Ave. S. $18,043 e.e. $25,200, to Independent Paving Co., 3828 1st Ave., 2 blocks 3rd Ave. N. and 4th Ave. S. $9,899 e.e. $10,500, to Dunn Constr. Co., Lincoln Life Bldg., 4 blocks 4th Ave. S. $26,519 e.e. $30,500, to J. L. Mullarky, 2400 Ave. J., 1 block 5th Ave. S. $6,322 e.e. $7,500 and to Camp & Pearson, Amer. Trades Bank Bldg., 1 block 12th St., $4,299 e.e. $5,200, all foregoing 40 ft. wide. Grand total $225,016. Noted Oct. 6.

Louisiana — State Hy. Comn., Baton Rouge, graveling 7.12 mi. Creston-Saline Highway, State Project 426-B, Natchitoches Parish to H. E. Machen, Winnfield,, $52,038. Noted Oct. 6.

La., Baton Rouge—Police Jury Baton Rouge Parish, grading and 2 in. block top on 5 in. concrete paving Weller Ave. from Standard Oil gates to Plank Rd. to Jones Constr. Co., Baton Rouge, $28,127. Noted Oct. 20.

Indiana—J. D. Williams, dir. State Hy. Comn., Indianapolis, concrete paving 1.302 mi. road in Greene Co., to Burch Constr. Co., Madison, Wis., $20,949. Noted Sept. 22.

Ind., Goshen—Elkhart Co., grading and graveling 1 mi. F-3 Rd., to D. H. Fisher, New Paris, $8,270; 2,696 ft. F-4 Rd., and 9,100 ft. G-4 Rd., to Concord Constr. Co., Elkhart, $2,960 and $11,430 respectively. Grand total $22,660. Noted Oct. 27.

Ind., Lagrange — Comrs. Lagrange Co., graveling W. Haskins Rd., to C. E. Rontsong, Mongo, $11,324; S. Devenbaugh Rd., to W. M. Shivly, Churubusco, $8,977; and B. Bovee Rd., to G. Rasler, Lagrange, $11,555. Grand total $31,856. Noted Nov. 3.

Mich., Detroit—For one course 6 in. concrete paving 14,000 sq.yd. Alleys 2459-69 (inclusive), 18 and 20 ft., 9 alleys, to Cement Paving Co., 606 Woodward Ave., $23,055; and 2 alleys, to Lennane & McIlvenna, 7777 West Chicago Blvd., $2,640.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, paving Route 49, Sects. 135 and 136, Iroquois Co., to Harrison Eng. & Constr. Co., Mutual Bldg., Kansas City, Mo. $277,491, Route 6, Sect. J-W-1 Cook Co., to Carey & Kelley Co., Chicago $51,198, Route 122, Sect. 123, Mason Co. to H. A. Carpenter, Evansville, Ind. $165,509, Route 130, Sect. 122, Jasper and Richland Counties, to J. I. Ransom, Palestine $100,295, Route 64, Sect. 130, and grading Route 6, Sect. J-R-1, Du Page Co., to W. A. Black Co., 565 West Washington Blvd., Chicago $387,794 and $8,005 respectively, Route 142-A, Sect. 101-A Wayne Co., to King & Sheahan, Dudley $50,700, and Route 63, Sect. 631-A, Kane and Cook Counties, to Burch Constr. Co., Madison, Wis., $101,995. Grand total $1,142,987. Noted Sept. 15.

Ill., Chicago—Cook Co. Highway Dept., 139 North Clark St., paving Harlem and Lawrence Aves., to Chicago Heights Coal Co., Chicago Heights $111,479 and $192,145 respectively, Archer Ave., to A. Ward & Son, Lansing $218,476, Western Ave., to G. H. Summerville, Harvey $157,653, Demster St., to Arcole Constr. Co., Evanston $25,001 and Harlem Ave., to J. P. O'Keefe, 79th and Ashland Aves. $40,540; also widening 95th St., to States Impvt. Co., 160 North La Salle St., $37,792. Grand total $783,088.

Minnesota—State Hy. Comn., St. Paul (**F.A.P. means Federal Aid Project and S.A.P. State Aid Project**), concrete paving 115,500 sq.yd. S.A.P. 5-31, Sect. 1, F.A.P. 380, 29,000 sq.yd. S.P. 5-36, B and C, F.A.P. 345, and 45,600 sq.yd. S.P. 51-21, F.A.P. 288, to C. F. Sculley Equipment Co., 212 Dakota Bldg., St. Paul, $241,275; grading, etc. 179,000 cu.yd. S.P. 4-41, F.A.P. 406, to Olson & Carlson, 3338 Lyndale Ave. N., Minneapolis $69,114, and 220,000 cu.yd. S.P. 7-40, Sect. 2, F.A.P. 365, to Volden Bros., Milan $77,636; also grading and culverts on 741,000 cu.yd. S.P. 20-34, F.A.P. 411, to Nolan Bros., 18 North 2nd St., Minneapolis $330,069, and 222,500 cu.yd. S.P. 4-42, F.A.P. 406, to DeRuyter Bros., Renville $74,790. Grand total $792,884. Noted Oct. 27.

Nebraska—R. L. Cochran, state highway engr., Lincoln, grading, etc. 1.1 mi. Project 310-A, Greeley Co., to Diamond Eng. Co., Grand Island $25,950, and 4.5 mi. Project 607-A, Gage Co., to Koehler Constr. Co., Sterling $9,850; graveling 4.5 mi. same road, to A. Davison, Beatrice $5,932, 15.7 mi. Project 268-A, Pierce Co., to C. W. Smith, Plainview $39,240, 7 mi. Project 136-K, Pierce Co., to Stevens Bros., St. Paul, Minn. $7,440, and 11 mi. Project 27, Saunders Co., to Central Bridge & Constr. Co., Wahoo $7,080; constructing bridge on Project 113-C, Knox Co., to G. W. Condon Co., 223 Grain Exch. Bldg., Omaha $3,019, and 3 bridges on Schuyler-Pilger Rd., Proj-

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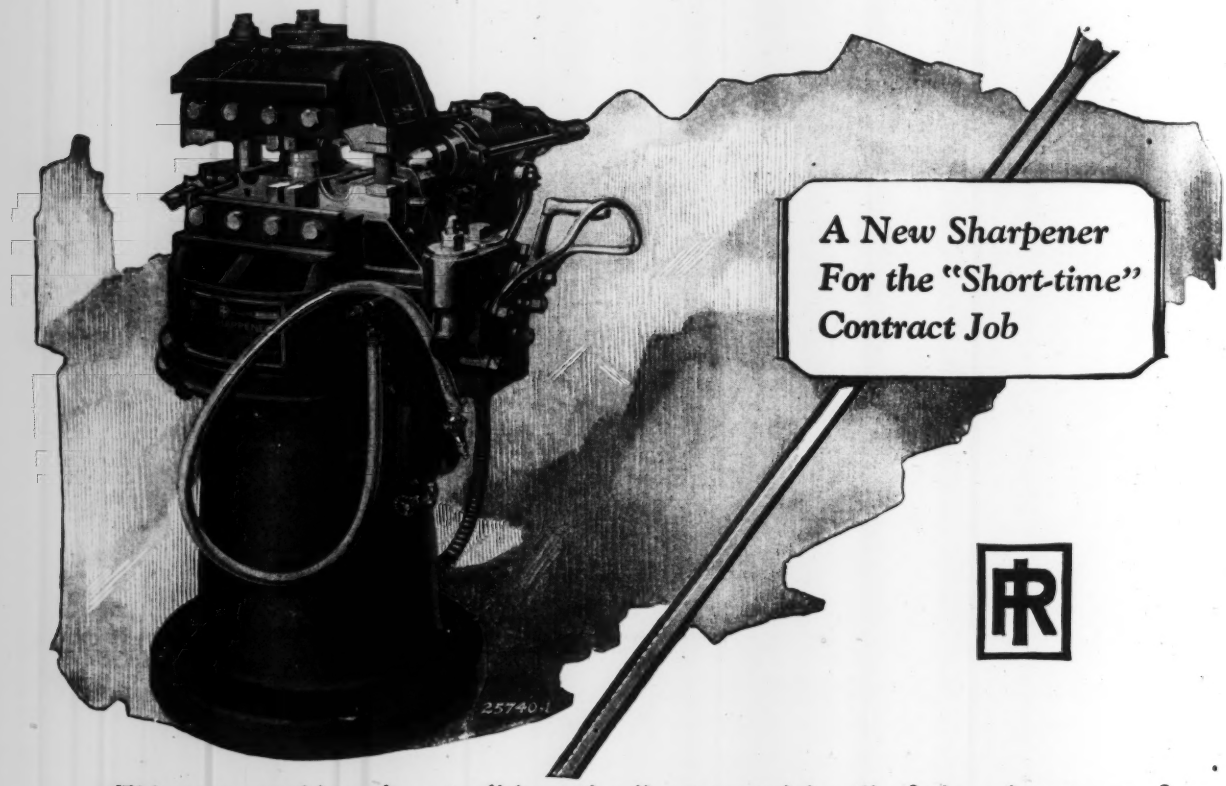
No. 34 Leyner drill sharpener is designed especially for sharpening and shanking "Jackhamer" steels



This new machine gives to "short-time" contract jobs all of the advantages of machine sharpening which heretofore have been possible only on the larger contracts having permanent up-to-date blacksmith shops.

It will make all of the standard bits up to 2½" gauge and standard shanks on steel up to 1⅛" diameter.

In addition it will rapidly and economically form moil points and Paving Breaker shanks on 1⅛" solid hexagon steel. It will do upsetting and bending jobs, and forge bolt and river heads, spikes, pins, wedges, hand picks, etc.

Write or phone our nearest branch office for your copy of the new two-color bulletin describing all sizes of "Leyner" Sharpeners. This bulletin is just off the press.

The following new refinements have been incorporated in this machine:

Air reservoir in the base
Greater movement of crosshead
Adjustable hammer cylinder
Dolly spring carriage
Large vertical type piston valve
Wider and longer form spaces
More powerful hammer
Enclosed air passage
Positive lubricating systems
Snap piston rings
Scale guard on cross-head rod
Attached safety block

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Streets and Roads (Continued)

ect 261-B, Colfax Co., to Fremont Constr. Co., Fremont $8,388; also culverts on 4.5 mi. Project 607-A, Gage Co., to Keim Constr. Co., Tecumseh $15,063. Grand total $99,819. Noted Oct. 13.

Neb., Lincoln — Vitr. brick paving 2.210 sq.yd. streets in Repaving Dist. 93, to Martin-Day Co., 312 Little Bldg., $9,187; brick paving 470 sq.yd. Alley Paving Dist. 182, to Reimers Kaufman Co., 16th and West Sts. $1,028, and 4,220 sq.yd. Paving Dist. 659, to Roberts Constr. Co., 404 1st Natl. Bank Bldg., $17,692; also asphaltic concrete paving 4,250 sq.yd. Paving Dist. 761, to Cochrane Constr. Co., 822 1st Natl. Bank Bldg., $12,601. Grand total $40,508.

South Dakota—State Hy. Comn., Pierre, graveling, etc. approximately 21,600 cu.yd. Federal Aid Project 205, Deuel Co., to Deuel Co., C. Johnson, co. highway supt., Clear Lake.

Missouri—State Hy. Comn., Jefferson City, gravel shoulders on 0.354 mi. Macon-Moberly Rd., Macon Co., to H. Tidd, Brookfield $7,929; 18 ft. graveling 18.884 mi. Jefferson City-Rolla Rd. Maries Co., to Lahar Bros., Springfield $23,029, and 1.28 mi. St. Joseph-Hannibal Rd., Macon Co., to J. L. Simmons, La Plata $2,437; grading and 18 ft. concrete paving 0.744 mi. Kansas City-Liberty Rd., Clay Co., to E. D. Lyner Constr. Co., Kansas City $28,989, and 1.235 mi. Hannibal-St. Joseph Rd., Macon Co., to Excelsior Springs Co., Excelsior Springs $24,432. Grand total $86,816.

Mo., St. Joseph—To J. F. Buis, Mertland Apts., grading Bway. between 10th St. and St. Joseph Ave. $308, alley between Penn and Mitchell Sts. from 29th to 30th Sts. $203, and alley north of Faraon St. between 16th and 17th Sts. $216, to Bean Constr. Co., St. Joseph, grading 34th St. between Mitchell and Monterey Sts. $1,680, to Duncan & Kelley, 1st State Bank, Krug Hill Spur $22,362, to M. Haase, 2823 Sacramento Ave., Krug Park entrance $9,670, and Northwest Extension to St. Joseph Ave. $3,332; to Whitham Contg. Co., 911 Corby St., 6 in. concrete paving alley between Missouri and Colorado Sts. $1,599, and alley west of King Hill $942, also to Judson Eng. & Constr. Co., 1811 Faraon St., 1,126 sq.yd. Rosine St. $4,713. Grand total $45,025.

Arkansas—State Hy. Dept., Little Rock, grading, etc. 12 mi. Highway 24, Sect. 5, Nevada Co., to S. B. Boyd, Columbia, Miss. $52,754, 16 mi. Highway 35, Sect. 3, Grant Co., to Hope & Lybrand, Sheridan $82,630, 7 mi. Highway 24, Sect. 5, Pike Co., to Richardson Ayres, Hope $41,878, 9 mi. Highway 70, Sects. 6 and 7, Hot Springs and Montgomery Counties, to G. W. Nichols & Son, Hot Springs $63,646, 9 mi. Highway 11, Sect. 14, Independence Co., to Ware Constr. Co., Little Rock $86,346, and 4 mi. Highway 67, Sect. 9, Saline Co., to S. E. Evans, Clarkville $25,745; grading 8 mi. Highway 67, Sect. 21, Randolph Co., to W. J. Runyon Paving Co., Sheffield $202,-645; grading and graveling, etc. 2.8 mi. Highway 67, Sect. 18, Lawrence Co., to Gibson & Robins, Hoxie $14,091, 6 mi. Highway 67, Sect. 21, Randolph Co., to Davis Constr. Co., Boonville, Mo. $83,221. Grand total $652,956.

Tex., Alice—For 3 in. asphalt surfacing 25 blocks streets south of Texas-Mexico Ry., to Southwest Bitulithic Co., Gunter Bldg., San Antonio, approximately $72,000. Noted Oct. 13.

Tex., Ballinger—S. D. Raby, mayor, paving approximately 55,000 sq.yd. various streets, to Brown & Root, Georgetown, $110,000.

Tex., Brownsville—For 3 in. asphalt paving approximately 24 blocks various streets, to Southwest Bitulithic Co., c/o Gunter Bldg., San Antonio, approximately $45,000.

Tex., Cameron—Double bituminous surfacing 100 blocks residential streets, to Brown & Root, Georgetown, approximately $82,000.

Tex., Lockney—See "Unclassified."

Oklahoma—State Hy. Dept., Oklahoma City **(F.A.P. means Federal Aid Project, S.A.P. State Aid Project and e.e. engineers estimate)**, grading, etc. 12.085 mi. S.A.P. 503-A, B and C, incl. bridge, Alfalfa Co., also 8 mi. S.A.P. 226 C and D Kiowa Co., to T. C. Ottinger, Hinton, $40,749 and $32,-750 respectively e.e. $45,000 and $35,000 respectively, 21.584 mi. F.A.P. 213-A, B and C, and 0.762 mi. F.A.P. 160, Beckham Co., to Maney & Allen, Empire Bldg., Oklahoma City, $74,543 and $3,941 respectively, e.e. $95,000 and $6,000 respectively, 8.9 mi. S.A.P. 513-A and B, Carter Co., to D. F. Allen, Ardmore, $49,117 e.e. $55,000, 5.1 mi. S.A.P. 446-A and B, incl. bridge Comanche Co., to Interstate Constr. Co., Lawton, $22,421 e.e. $30,000, 6.78 mi. S.A.P. 226-E, Kiowa Co., to R. R. Tway, Continental Bldg., Oklahoma City, $31,-137 e.e. $35,000, 9.3 mi. F.A.P. 182-F, and 5 mi. F.A.P. 182-D, Pittsburg Co., to Hamilton Constr. Co., Bartlesville, $54,026 and $23,810 respectively e.e. $60,000 and $25,000 respectively, 4.763 mi. F.A.P. 151-D, Sequoyah Co., to James & Hopper, Wilburton, 19,293 e.e. $25,000, 7.837 mi. S.A.P. 497-A and B, Washita Co., to D. Sweeney, 614 West 11th St., Oklahoma City, $30,-523 e.e. $35,000, 10.06 mi. S.A.P. 422-A and B, Kay Co., to E. T. Fike, Nebraska Bldg., Tulsa, $38,818 e.e. $50,000, and 5.315 mi. F.A.P. 221-A and B, Pottawatomie Co., to A. W. Critz, Shawnee, $13,958 e.e. $25,000; rock asphalt surfacing 29,034 sq.yd. S.A.P. 50, Pittsburg Co., to Ward-Beekman & Brooks, 1801 East 9th St., Oklahoma City, $84,667 e.e. $100,000; and concrete surfacing 18,107 sq.yd. F.A.P. 164-A and B, Canadian Co., to S. O. Maxey, Durant, $29,-736 e.e. $35,000. Grand total $590,228. Noted Nov. 3.

Okla., Ada—Grading and paving 8 blocks 14th St., to Fry Bros., Ada, $22,003. Engrs. est. $25,000. Noted Oct. 6.

Okla., Cherokee—Alfalfa Co., 6 in. concrete paving 8,200 yd. streets in Carmen, also 10,500 yd. various roads, to Rightmire & Baldwin, Ponca City, at $2.31 per yd.

N. M., Clayton—Concrete paving approximately 10,137 yd. various streets, to Northwestern Constr. Co., Clayton, $31,595.

Idaho—Dept. Pub. Wks., Bureau of Highways, Boise, crushed rock surfacing 20,250 cu.yd. Federal Aid Project 40-A-C, Washington Co., to Joslin & McAllister, Wallowa, Ore., $48,066.

Washington—State Hy. Comn., Olympia **(S.R. means State Road)**, grading 187,000 cu.yd. S.R. 6, Pend Oreille Co., to Siems & Carlson, Inc., 412 Realty Bldg., Spokane $101,292, and 152,000 cu.yd. S.R. 13, Pacific and Grays Harbor Counties, to Hendricks & Olson, Chehalis $106,418, and 49,000 cu.yd. Ilwaco-North Head Rd., Pacific Co., to Osborne & Christie, Aberdeen $36,679; also graveling shoulders 6,260 cu.yd. S.R. 1, King and Pierce Counties, to B. & B. Building Material Co., Inc., 320 L. C. Smith Bldg., Seattle, $5,071. Grand total $249,-460. Noted Oct. 20.

Wash., Bremerton—Grading, guttering, sidewalks, and sewers in Lincoln School Impvt. Dist., to R. Wood, Olympia, $34,300.

Calif., Los Angeles—Grading and National asphaltic concrete paving, etc. 977,038 sq.ft. Bristol and Evanston St. Impvt. Dist., to Curtis Paving Co., 2440 East 26th St., $468,460. Noted Nov. 17.

Calif., San Diego—Bd. Supervs. San Diego Co., to B. Noble, Spreckels Bldg., improving Euclid Ave., etc., 374,854 sq.ft. 6 in. concrete paving at $0.18 per sq.ft., 112 ft. concrete curbing $0.60 per ft., 30,849 cu.yd. embankment $0.07, etc., total $104,-169. Engrs. est. $124,000.

Calif., San Diego — Bd. Supervs., San Diego Co., to United Concrete Pipe & Constr. Co., 675 Chamber of Commerce Bldg., Los Angeles, improving Valencia Park, Unit 2, 48,451 cu.yd. excav. at $0.65 per cu.yd., 132,583 sq.ft. 6 in. concrete paving $0.23, 276,801 sq.ft. 5 in. concrete paving $0.205, 22,514 lin.ft. concrete curbing $0.70, etc., total $264,465.

Calif., Santa Monica—Grading and concrete paving, etc. Palisades Beach Rd., etc., to Kneen Paving Co., Dudley Blk., $211,390.

Que., Montreal—Paving Mountain Rd., to Cook Constr. Co. Ltd., 10 Cathcart St., $287,415.

Buildings—Commercial

Proposed Work

Mass., Boston — HOTEL and OFFICE, etc.—Boston & Maine R.R., W. J. Backes, ch. engr., having sketches made by Funk & Wilcox, 26 Pemberton Sq., and Fellheimer & Wagner, consult. archts., 155 East 42nd St., New York City, 14 story and basement, brick, steel and stone hotel, office and distributing terminal, Causeway St. $3,000,000.

Mass., Cambridge (Boston P. O.)—APARTMENT—W. B. Bushway, c/o J. E. Holmes Co., archts., 420 Boylston St., Boston, having revised plans prepared 3 story and basement, brick and stone, plain foundation, Prospect St. $150,000-$160,000.

Mass., Great Barrington—HOSPITAL—Fairview Hospital, G. L. Taylor, chn., having preliminary plans prepared by Crow, Lewis & Wick Co., 200 5th Ave., New York City, 3 story hospital. $480,000.

Mass., Somerville (br. Boston)—Somerville Y.M.C.A., 101 Highland Ave., having sketches made by W. Atherton, 148 State St., Boston, altering and reconstructing (3rd unit) 4 story and basement, brick, Highland Ave. $150,000 or more.

Mass., Springfield—STORE, OFFICE and RESTAURANT—C. O. Oettis, c/o W. E. Dibble, archt., 21 Besse Pl., having revised plans prepared 3 story and basement, 90 x 110 ft., brick, Dwight and Worthington Sts. $150,000.

Conn., Bridgeport — THEATRE and STORE — Strand Amusement Co., M. Jacobson, Main and High Sts., having preliminary plans prepared by J. A. Tuck, 164 Lincoln St., Boston, Mass., 2 story and basement, brick and steel, Fairfield Ave. $150,000 or more.

Conn., Danbury — HOSPITAL and NURSES HOME—Danbury Hospital Assn., C. A. Mallory, pres., having preliminary plans prepared by Sunderland & Watson, 248 Main St., brick and steel hospital addition and nurses home, Locust Ave. $250,-000. Noted June 23.

Conn., New Britain—BUSINESS—B. C. Porter Sons, 224 Main St., soon lets contract brick and steel, Main St. $150,000. D. K. Perry, 17 Court St., archt. Noted Sept. 15.

N. Y., Bloomfield — APARTMENT — Cleremont Co., c/o E. V. Warren, archt., Essex Bldg., Newark, having plans prepared 5 story and basement, brick and steel, plain foundation, 165 Franklin St., here. $175,000.

N. Y., Elmira—HOTEL—Wisner Park Corp. of Elmira, c/o J. J. Hassett, State Theatre Bldg., takes bids in March, 8 story and basement, brick and steel, Main and Gray Sts. $1,140,000. G. B. Post, 101 Park Ave., New York City, archt.

N. Y., Hempstead—APARTMENT—W. B. Wills, archt., 852 Monroe St., Brooklyn, takes bids about Nov. 30, 6 story and basement apartment, Cathedral Ave., here, for Corporation being formed. $550,000.

N. Y., New York—HOTEL—S. Friedenberg, 36 West 47th St. takes bids about Dec. 15, 16 story and basement apartment, 136 West 49th St., $450,000. Springsteen & Goldhammer, 40 East 49th St., archts.

N. Y., Utica—Y. M. C. A., E. L. Thornberry, genl. secy., plans Y. M. C. A. building, here. $500,000-$600,000.

N. J., East Orange—APARTMENT—F. J. S. Constr. Co., c/o P. Krueger, archt., 60 Branford Pl., Newark, having plans prepared 4 story and basement, 80 x 130 ft., brick and steel, plain foundation, Elmwood Ave. and Oak St. $150,000.

N. J., East Orange—APARTMENT—M. T. Realty Co., c/o H. F. Clark, archt., 38 Clinton St., Newark, having plans prepared 4 story and basement, brick and steel, plain foundation, Washington and Center Sts. $150,000.

N. J., Hackensack—APARTMENT—E. Banta Associates, 194½ Main St., having sketches made by G. F. Pelham, 570 5th Ave., New York City, 5 story and basement, brick and steel, plain foundation, Summitt Ave. and Clinton Pl. $300,000.

N. J., Irvington (br. Newark)—APARTMENT—Crowley & O'Brien, c/o A. J. Silberstein, archt., 60 Park Pl., Newark, having plans prepared 4 story and basement, brick and steel, plain foundation, Stuyvesant Ave. $150,000.

N. J., Irvington (br. Newark)—APARTMENT—Quincy Realty Co., c/o Schneider, Kleeman & Werther, archts., 1021 Broad St., Newark, having plans prepared 5 story and basement, 75 x 125 ft., brick and steel, plain foundation, 12 Martin Pl. $150,000.

N. J., Irvington (br. Newark)—APARTMENT—Wilstrom Co., 443 Rahway Ave., Elizabeth, having plans prepared by E. V. Warren, Essex Bldg., Newark, 3 story and basement, 100 x 125 ft., brick and steel, plain foundation, 979-983 Clinton St. $150,000.

N. J., Jersey City—HOTEL—Universal Securities Co., H. W. Runyon, pres. 50 Journal Sq., having sketches made 17 story and basement, rein.-con., brick and steel, plain foundation, 2861-67 Hudson Blvd. $5,000,000. Engineer and architects names withheld.

N. J., Montclair—OFFICE—Owner, c/o Holmes & Von Schmid, archts., 1 The Crescent, Montclair, will not construct 5 story and basement, brick and steel, plain foundation, here. $150,000. Project abandoned. Noted Oct. 6.

N. J., Newark — APARTMENT — L. Juliano, 459 Central Ave., Orange, having plans prepared by N. A. Norelli, 786 Broad St., 4 story and basement, brick and steel, plain foundation, Carteret St. and Summer Ave. $250,000.

N. J., Newark—HOTEL—Owner, c/o F. Grad, archt., 1023 Broad St., having sketches made 20 story and basement, brick and steel, plain foundation, Broad and Camp Sts. $1,000,000.

N. J., Newton—HOSPITAL—Bd. Freeholders Sussex Co., Court House, having plans prepared by Sutton, Sutton & Calkins, 402 Broad St., Newark, 3 and 4 story and

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Buildings—Commercial (Continued)

basement, brick and steel, plain foundation. $500,000. Noted Feb. 24.

N. J., North Arlington (mail Arlington) —APARTMENT—Stuyvestant Holding Co., c/o D. Scrocco, archt., 60 Park Pl., Newark, having plans prepared 3 story and basement, 80 x 120 ft., brick and steel, plain foundation, Beech St. between Arlington St. and Exton Ave. $150,000.

N. J., Paterson — Y. M. C. A., R. J. Walsh, secy., 141 Ellison St., having plans prepared by F. W. Wentworth, 140 Market St., 3 story and basement, brick and steel, plain foundation, Ward and Prince Sts. $750,000. Architectural Bureau Y. M. C. A., 347 Madison Ave., New York City, associated archts. Noted Sept. 8.

N. J., Teaneck (mail West Englewood)—APARTMENT—Owner, c/o G. Willaredt, archt., 411 23rd St., West New York, having plans prepared 4 story and basement, brick and steel, plain foundation, here. $150,000.

N. J., Trenton — HOTEL — P. Schlicher, Jr., 1510 Riverside Ave., having plans prepared by W. W. Slack & Sons, Trenton Trust Bldg., 8 story, 44 x 68 ft., brick and steel, plain foundation, Stockton and Hanover Sts. $150,000.

N. J., Woodridge (mail Rutherford)—APARTMENT and STORE—C. W. Golling, Rochelle Park, plans 4 story and basement, brick and steel, plain foundation, Windsor Rd. and Hackensack St., here. $150,000. Private plans.

Pa., Johnstown — HOSPITAL — Homeopathic Hospital having plans prepared by Kast & Kelker, 222 Market St., Harrisburg, 5 story and basement, 66 x 80 ft., brick and steel addition, Main St. $150,000.

Pa., Pittsburgh — THEATRE and APARTMENT — L. Hendel, 1900 Center Ave., having plans prepared by C. J. and C. Reeger, Fulton Bldg., 3 story and basement, brick and steel, Center Ave. $150,000.

Md., Baltimore—HOTEL—Title Guarantee & Trust Co., St. Paul and Lexington Sts., having plans prepared by F. A. Fletcher, 13 West Franklin St., 12 story and basement, 50 x 123 ft., brick and stone, St. Paul and Eager Sts.

Ga., Atlanta—CITY HALL—City Com. of City Council having plans prepared by G. L. Preacher, Wynne-Claughton Bldg., city hall. $1,000,000. Noted May 6, 1926.

N. C., Winston-Salem—OFFICE—R. J. Reynolds Tobacco Co. plans office building on 120 x 200 ft. site, 4th, Church and Main Sts.

O., Ashland—COURT HOUSE—Ashland Co. voted $365,000 bonds, court house. Noted Aug. 25.

O., Cleveland — APARTMENT — J. De Kaiser, 1225 Guarantee Title Bldg., having plans prepared by M. Weis, 1836 Euclid Ave., 3 story and basement, 72 x 97 ft., brick, 1201 East Blvd. $150,000.

O., Columbus — LODGE — Grand United Order Odd Fellows, Garfield and Long Sts., having plans prepared by G. W. Abernathy, 83 South High St., 3 story and basement, 111 x 150 ft., brick and concrete, East Long St. $200,000.

O., Columbus — LODGE — Columbus Order Aerie 287 Eagles, 771 North High St. Bldg., R. J. Bartlett, chn. building com., having sketches made, 4 story and basement, 90 x 180 ft., brick, steel and concrete lodge. $300,000. Engineer and architect not selected.

O., Dayton—THEATRE and OFFICE—Syndicate, c/o W. W. Ahlschlager, Inc., archt., takes bids about Jan. 15, 6 story and basement, brick and rein.-con., 3,500 seating capacity. $2,000,000.

Ind., Indianapolis—APARTMENT—Illini Realty Co., E. P. Warren, secy., 719 Lemcke Bldg., had plans prepared 2 story and basement, 130 x 150 ft., rein.-con. and brick, 2865-67-69-71 North Illinois St. $160,000. Private plans.

Mich., Battle Creek—SERVICE—M. J. Morehouse, archt., 343 South Dearborn St., Chicago, Ill., takes bids about Nov. 26, 4 story and basement, 88 x 128 ft., rein.-con. and brick, incl. dining room, kitchen, and doctors offices, here, for Battle Creek Sanitarium. $300,000.

Ill., Chicago — APARTMENT—Hammar & Girton, 18 West Kinzie St., having plans prepared 13 story and basement, 125 x 140 ft., rein.-con., brick and stone, 1215 Granville Ave. $750,000. Private plans.

Ill., Chicago — APARTMENT — Schoenlank & Kirschner, 4753 Bway., soon take bids 7 story and basement, 75 x 92 ft., rein.-con., brick and stone, Greenview and Morse Aves. $400,000. A. N. Quitsow, 228 North La Salle St., archt.

Ill., Chicago—CLUB—Agricultural Club of America, c/o W. H. Pruyn, archt., 122 South Michigan Ave., having sketches made 21 story and basement, 250 x 900 ft. club

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building, Lake Shore Dr. River, near Municipal Pier. $35,000,000.

Ill., Chicago — HOTEL and STORE — A. W. Dickson, 155 North Clark St., having plans prepared by C. W. Lampe & Co., 155 North Clark St., 4 story and basement, rein.-con., brick and stone, on 80 x 125 ft. site, Cicero Ave. near Irving Park Blvd. $175,000.

Ill., Oak Park—HOTEL—L. C. Schlegel, c/o C. W. Palme & Co., archts., 155 North Clark St., having plans prepared 5 story and basement, rein.-con., brick and stone, on 50 x 184 ft. site, 112 South Park Ave. $175,000.

Ia., Iowa City—AMERICAN LEGION—Amer. Legion Post, c/o C. F. Ward, chn., takes bids in early spring, 3 story, rein.-con., brick and stone, incl. Chamber Commerce rooms, legion quarters, drill rooms, dance hall etc. $170,000. C. C. Woodburn, 806 Valley Natl. Bank Bldg., Des Moines, archt. Noted June 2.

Ia., Iowa City—HOTEL—W. J. Harter, et al, having preliminary plans prepared 7 story, 150 x 160 ft., rein.-con., brick and terra cotta, Dubuque and Burlington Sts., here. $400,000.

Minn., Minneapolis — HOTEL-CLUB — Nordic Hotel Assn., G. Eide, secy., 1614 East 34th St., having plans prepared by Sund & Dunham, 512 Essex Bldg., 18 story and basement, rein.-con., brick and stone, Marquette Ave. and 10th St. $2,500,000.

Minn., Robbinsdale—CITY HALL—City, c/o C. F. Wilson, mgr., plans 2 or 3 story and basement, rein.-con., brick and stone city hall. $150,000. Engineer and architect not announced.

Mo., Poplar Bluff—COURT HOUSE—Butler Co. voted $265,000 bonds, 3 story and basement, rein.-con., brick and stone, North Main St. N. S. Spencer & Sons, 25 East Jackson Blvd., Chicago, Ill., archts. Noted Sept. 15.

Mo., St. Louis — APARTMENT — J. F. Mathews Constr. Co., 4511 Delmar Blvd., having preliminary plans prepared by R. A. Nonselman, 114 North 7th St., 3 story and basement, rein.-con., brick and stone, 11th and Ferry Sts. $275,000.

Mo., St. Louis—APARTMENT—S. Weinberg, 816 Chestnut St., having preliminary plans prepared by M. L. Latner, 816 Chestnut St., 3 story and basement, rein.-con. and brick, 325 North Taylor Ave. $150,000.

Mo., St. Louis—BANK and OFFICE—Lindell Trust Co., C. H. Peters, pres., 2745 North Grand Blvd., having plans prepared by Wedemeyer & Nelson, Wainwright Bldg., and takes bids about Dec. 11, 4, 5 or 6 story and basement, 75 x 122 ft., rein.-con., brick, stone and terra cotta, Grand and St. Louis Aves.

Mo., St. Louis—DEPOT—Wabash Ry. Co., R. H. Howard, ch. engr., Ry. Exch. Bldg., having preliminary plans prepared 2 story and basement, rein.-con., brick and terra cotta, Delmar Blvd .and Wabash Ry. tracks. $300,000.

Tex., Eastland — COURTHOUSE—Eastland Co., c/o G. S. Prichard, judge, takes bids about Dec. 1, 5 story and basement, brick, stone, steel and rein.-con. courthouse. $300,000. Lang & Witchell, 300 Amer. Exch. Bldg., Dallas, archts. Noted Oct. 6.

Okla., Tulsa—HOTEL—A. C. Johnson, 309 Natl. Bank of Commerce, having plans prepared 11 story, 100 x 140 ft. hotel, Main and 7th Sts. $700,000. Engineer and architect not selected.

Okla., Tulsa—OFFICE—J. E. Crosbie, Central Natl. Bank Bldg., having plans prepared approximately 12 story, 100 x 140 ft. office building Main and 2nd Sts. $700,000. Engineer and architect not selected.

Ariz., Phoenix — CLUB — Phoenix Club having plans prepared by Hunt & Burns, 701 Homer Laughlin Bldg., Los Angeles, Calif., 5 story and basement, 68 x 140 ft., concrete and steel, incl. 24 x 60 ft. swimming pool, West Van Buren St. and Indiana Ave. $250,000.

Wash., Seattle — APARTMENT — J. S. Hudson (owner and architect), Empire Bldg., preparing plans 8 story and basement, forty-five 2 and 3 room suite, concrete, brick and steel, Terry and Spring Sts. $300,000.

Wash., Seattle—CLUB HOUSE—Rainier Club, 4th and Marion Sts., plans addition. $500,000.

Ore., Portland—BUSINESS—DeYoung & Roland, archts. and engrs., Portland, take bids about Jan. 1, 2 and 3 story and basement, 199 x 200 x 217 ft., concrete, Powell Valley, Foster Rd. and 50th St., for J. A. Charlesworth, Portland. $500,000.

Ore., Portland—FRATERNAL—Sutton & Whitney, archts., Lewis Bldg., take bids about Jan. 1, 5 story and basement, 100 x 100 ft., Morrison and 14th Sts., for Neighbors of Woodcraft, Portland. $300,000.

Ore., Roseburg — COURT HOUSE — Comrs. Douglas Co. plans court house. $280,000 appropriated. Engineer and architect not selected.

Calif., Antioch—THEATRE and OFFICE —F. Stamm & H. Beede plan theatre and office building, 2nd and G Sts. Engineer and architect not selected. $150,000.

Calif., El Centro — THEATRE and STORE — J. P. Perrine, archt., Lincoln Bldg., Los Angeles, soon takes bids on revised plans 120 x 140 ft., rein.-con. theatre 1,500 seating capacity, and store building, 7th and State Sts., for R. Croft, c/o architect. Noted Sept. 22.

Calif., Long Beach — APARTMENT — J. H. Roberts, archt., Marine Bank Bldg., preparing preliminary plans 9 story and basement apartment. Owners name withheld.

Calif., Los Angeles — HOME — O. M. Hickey and associates, Pacific Natl. Bank Bldg., plan home for aged, near here. $500,000.

Calif., Los Angeles — HOSPITAL — Los Angeles Co. had plans prepared by E. Bergstrom, Citizens Natl. Bank Bldg., M. Hunt, Hibernian Bldg., and P. Davis, 3215 West 6th St., (unit 1), 60 x 493 ft. and (unit 2) 60 x 230 ft., both 1 story, rein.-con. additions, incl. 1 and part 2 story 39 x 85 ft. morgue and power house, at Olive View Sanitarium. $260,000. Noted Jan. 27.

Calif., Los Angeles—OFFICE—W. S. Orme, archt., 701 Wright & Callender Bldg., making sketches 8 story and basement, 64 x 146 ft., rein.-con., Sunset Blvd. west of Vermont Ave. $450,000. Owners name withheld.

Calif., Madera—HOTEL—Interests represented by W. S. Hill, vice pres., 1st Natl. Bank, plans approximately 4 story, brick and concrete, Yosemite Ave. and C St. $150,000 or more.

Calif., Oakland — OFFICE — Realty Syndicate Building Co. having preliminary plans prepared by H. Murdock, Syndicate Bldg., 10 story and basement, annex, 15th and Franklin Sts. To exceed $250,000.

Calif., Oakland—STORE—H. C. Capwell Co., 14th and Clay Sts., Oakland, having plans prepared by Ashley & Evers, 525 Market St., San Francisco, and Starrett & Van Vleck, 393 7th Ave., New York City, N. Y., 6 story (ultimately 10 story), and basement, 20th St. and Bway. $3,000,000.

Calif., San Diego — HOSPITAL — I. E. Loveless, archt., Chester Williams Bldg., soon takes bids rein.-con. addition, 100 bed capacity, for Mercy Hospital, Hillcrest St. $300,000.

Calif., San Francisco—APARTMENT—W. Van Herrick, 1360 O'Farrell St., having plans prepared by J. C. Hladik, Monadnock Bldg., 6 story and basement, concrete, Waller and Laguna Sts. $175,000.

Calif., San Francisco—BANK and OFFICE—Canadian Bank of Commerce, 450 California St., having preliminary plans prepared by L. W. Hobart, Crocker Bldg., 6 story and basement, Pine and Liedesdorff Sts. $300,000.

Calif., South Pasadena (Ind. br. Pasadena)—MASONIC TEMPLE—South Pasadena Masonic Temple Assn., purchased 90 x 215 ft. site and plans temple, Fremont Ave. and Oak Sts. To exceed $150,000. Engineer and architect not selected.

Ont., Ottawa—APARTMENT—S. Miller, 190 Bank St., having plans prepared by C. Burgess, 185 Sparks St., 3 story, 90 x 120 ft., rein.-con., brick and steel, plain foundation, Elgin and McLeod Sts. $175,000.

Ont., Sarnia — WAREHOUSE — Sarnia Brewing & Distilling Co., Front St., plans rein.-con., brick and steel, plain foundation. $200,000. Engineer and architect not selected.

Ont., Toronto—AUTO SHOW ROOM—Ford Motor Co. of Canada, Danforth Ave., having plans prepared by George, Moorhouse & King, 1123 Bay St., 3 story and basement, 60 x 120 ft., rein.-con., brick and steel, plain foundation, Bay and Charles Sts. $190,000.

Que., Montreal—OFFICE and STORE—J. C. Asch, 581 Grosvenor Ave., Westmont, plans 10 story, 170 x 170 ft., Guy and St. Catherine Sts. $450,000.

Que., Montreal — OFFICE — Bell Telephone Co., 118 Notre Dame St. W., having plans prepared by Barot & Blackader, Canada Cement Bldg., 20 story, 129 x 149 ft., limestone, Beaver Hall Hill. Noted July 14.

Bids Desired

Mass., Boston — STORE and OFFICE — —Nov. 29, by H. B. Alden, archt., 126 State St., 6 story and basement, 30 x 100 ft., brick, steel and stone, plain foundation, 143 Newbury St., for E. S. Welck, 73 Tremont St. $150,000.

Mass., Brookline (br. Boston)—APARTMENT—See "Contracts Awarded."

N. Y., Colonie (mail Watervliet)—ALMSHOUSE, etc.— Dec. 15, by Clerk Bd. Supervs., Albany Co., Court House, Albany.

Buildings—Commercial (Continued)

Ann Lee Home, Shaker Farm; also remodeling and completing Community House at Ann Lee Home, here. H. Rogers, 467 Bway., archt.; adv. E. N.-R. Nov. 24. Noted July 14 under "Albany."

N. Y., Helmuth—FARM DORMITORY—Dec. 14, by Commissioner Mental Hygiene, Dept. Mental Hygiene, Capitol, Albany, farm dormitory, at Gowanda State Homeopathic Hospital, here. S. W. Jones, Capitol, Albany, state archt.; adv. E. N.-R. Nov. 24. Noted Oct. 27.

N. Y., New York — APARTMENT — Solomon & Kahn, 475 5th Ave., taking subbids 15 story and basement, 65 x 102 ft., brick and steel, plain foundation, 3rd Ave. and 79th St. $750,000. Gronenberg & Leuchtag, 1385 Bway., archts. Noted Aug. 4.

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. J., East Orange—APARTMENT—See "Contracts Awarded."

N. J., Newark — APARTMENT — See "Contracts Awarded."

N. J., Orange — APARTMENT — See "Contracts Awarded."

Pa., Phila.—APARTMENT—Hodgens & Hill, archts., 130 South 15th St., taking bids 4 story and basement, 98 x 150 ft., brick and steel, plain foundation, Church Lane and Ogontz St., for M. I. Isen, Penn Bldg.

Ga., Canton—COURT HOUSE and JAIL—Dec. 14, at Bank of Canton, part 2 and 4 story and basement, 82 x 93 ft., brick and concrete, North Main and North Church Sts., for Cherokee Co. $150,000. A. Ten Eyck Brown, 717-20 Forsyth Bldg., archt. Noted Oct. 20.

O., Cincinnati — Dec. 5, by Rendigs, Panzer & Martin, archts., Southern Ohio Bank, 7 story and basement, brick and rein.-con., plain foundation, Walnut St., for Y. W. C. A., 20 East 8th St. $700,000.

Ind., Hammond — APARTMENT — Morraine Corp., c/o Newhouse & Bernham, archts., 5257 Cottage Grove St., Chicago, Ill., taking bids 4 story, 120 x 125 ft., brick, steel and stone, Morraine Ave. and Hohman St. $160,000.

Ind., Kokomo — COURT HOUSE and WAR MEMORIAL—Dec. 10, by O. Butcher, aud. Howard Co., 3 story and basement, 100 x 150 ft., steel, Public Sq. $500,000. W. Scholer, Lafayette, archt. Noted Oct. 13.

Ill., Chicago — HOSPITAL — Dec. 3, by Holabird & Roche, archts., 104 North Michigan Ave., 13 story and basement, 81 x 224 ft., rein.-con. and cut stone, East Superior St. and Fairbanks Ave., for Passavant Memorial Hospital, 26 West Erie St. $2,000,000. Noted Jan. 7.

Neb., Wilbur — COURT HOUSE, etc. — Dec. 5, by J. M. Korbel, clk. Saline Co., 3 story and basement, 70 x 100 ft. court house, also 2 story and basement, 36 x 77 ft. jail and sheriffs residence, Court High St. from 2nd to 3rd Sts. $250,000. M. L. Evans, Brandeis Bldg., Hastings, archt. Noted Sept. 22.

Calif., Los Angeles—THEATRE—West Coast Theatres, Inc., Film Exch. Bldg., taking bids on revised plans rein.-con., Whittier Blvd. $150,000. Former bids rejected. Balch Bros., Film Exch. Bldg., archt.

Calif., Los Angeles—THEATRE, STORE and OFFICE—Balch Bros., Film Exch. Bldg., taking bids on revised plans 80 x 150 ft., rein.-con. theatre, 1,500 seating capacity, Whittier Blvd., for West Coast Theatres, Inc.

Contracts Awarded

Mass., Boston — STATION and COLOSSEUM — Boston & Maine R.R., W. J. Backes ch. engr., railroad station and colosseum, seating approximately 18,500, on Causeway St., to Dwight P. Robinson & Co., 125 East 46th St., New York City. Archts. est. $4,000,000. Funk & Wilcox, 26 Pemberton Sq. Archts. Fellheimer & Wagner, 155 East 42nd St., consult. archts.

Mass., Brookline (br. Boston)—APARTMENT—Owner, c/o Eisenberg & Feer, archts., 46 Cornhill, Boston, will build 3 story and basement, 120 x 180 ft., brick and stone, plain foundation, Washington St. $250,000. Work will be done by separate contracts. Noted Nov. 17.

Mass., Dorchester (Sta. Boston) — WAREHOUSE—Great Atlantic & Pacific Tea Co., A. Thompson, mgr., Fitchburg St., Somerville, 5 story, rein.-con., brick and steel, plain foundation, Dewar St., here, to Barrows & Co., 40 Central St., Boston. Archts. est. to exceed $150,000.

Conn., Stamford—APARTMENT— Rippowam Village Corp., Smith Bldg., Greenwich, 4 story, brick and steel, South St. and Richmond Hill Ave., to Vuono Constr. Co., Main St. Archts. est. $150,000.

N. Y., Brooklyn—APARTMENT—Corporation, 6 story and basement, 124 x 171 ft. apartment, Ocean Parkway and Sherman St., to Drapkin & Goldberg Constr. Co., 44 Court St. Archts. est. $1,000,000.

N. Y., New York—APARTMENT—P. J. Dwyer, 2454 Grand Concourse, will build apartment, 178th St. and Bway. $200,000. Work will be done by separate contracts. C. Kreymborg, 2534 Marion Ave., archt.

N. Y., New York—APARTMENT—Gussie Building Corp., 1726 Davidson Ave., will build 6 story and basement, 87 x 225 ft., brick, Davidson Ave. and 174th St. $450,000. Work will be done by separate contracts. L. Stillman, 1993 Jerome Ave., archt.

N. Y., New York—APARTMENT—L. E. Kleban & Sons, Inc., 1440 Bway., will build 6 story and basement, 89 x 234 ft. apartment, 166th St. between Grand Concourse and Walton Ave. $800,000. Work will be done by separate contracts. A. J. H. Leuchtag, 1385 Bway., archt.

N. Y., New York—APARTMENT—One Sutton Sq. Corp., c/o R. Candela, archt., 578 Madison Ave., will build 14 story apartment on 57 x 75 ft. site, 25-27 Sutton Pl. $400,000. Work will be done by separate contracts.

N. Y., New York—HOSPITAL—Neurological Institute of New York, 149 East 67th St., 14 story and basement, 103 x 189 ft. hospital, 193-201 Fort Washington Ave., to M. Eidlitz & Sons, 41 East 42nd St. $1,250,000.

N. Y., New York — HOSPITAL and NURSES HOME — French Hospital, 450 West 34th St., general contract 15 story, 80 x 160 ft., hospital, and 8 story, 70 x 80 ft. nurses home, brick and steel, wood and concrete pile foundation, 8th Ave. between 29th and 30th Sts., to G. A. Fuller Co., 949 Bway. Archts. total est. $2,000,000. Sept. 29.

N. Y., New York — LOFT — Printarts Building, Inc., c/o H. I. Oser, archt., 1440 Bway., general contract 18 story, brick and steel, 288 East 45th St., to Magoba Constr. Co., 103 Park Ave. Archts. est. $2,000,000.

N. Y., White Plains—Y. M. C. A., F. G. Smith, genl. secy., general contract Y. M. C. A. building, to W. P. Berbusse, Portchester. Archts. est. $355,000.

N. J., East Orange—APARTMENT—A. Lieb, 34 Goodwin Ave., Newark, will build 4 story and basement, 85 x 140 ft., brick and steel, plain foundation, 170 South Clinton St. $155,000. Work will be done by separate contracts. Noted Nov. 17.

N. J., East Orange — APARTMENT — Mount Vernon Constr. Co., M. Rosenbaum, pres., 588 Bergen St., Newark, will build 4 story and basement, brick and steel, plain foundation, 499 Williams St. $175,000. Work will be done by separate contracts. R. Botteli, 45 Branford Pl., Newark, archt.

N. J., Hoboken — THEATRE — Stanley-Fabian Co., 17 Academy St., steel for 2 story and basement, 115 x 213 ft., brick and steel, Washington and Newark Sts., to Belmont Iron Wks., 44 Whitehall St., New York City. Archts. total est. $1,000,000. Noted June 23.

N. J., Newark — APARTMENT — A. Potash, c/o S. Cohen, archt., 130 Bradford Pl., will build 5 story and basement, brick and steel, plain foundation, 48-50 Milford Ave. $160,000. Work will be done by separate contracts. Noted Nov. 17.

N. J., Newark — HOSPITAL — Sutton, Sutton & Calkins, archts., 402 Broad St., general contract 6 story and basement, 70 x 130 ft., and 88 x 104 ft., brick and steel, plain foundation, 9th Ave. between 9th and 10th Sts., to Carlson Co., 89 Walnut St., Montclair, for Presbyterian Hospital, 25 South 9th St. Archts. est. $500,000. Noted Oct. 27.

N. J., Orange—APARTMENT—Bilt-Wel Co., 135 Hill St., will build 4 story and basement, 95 x 110 ft., brick and steel, plain foundation, Scotland Rd. and Randolph St. $150,000. Work will be done by separate contracts. M. Villanueva, 7 Sterling Dr., archt.

O., Cleveland — APARTMENT — H. Hradilek, Park Bldg., 3 story and basement, brick, steel and concrete, Edgewater Dr., to E. J. Wintering, 3492 West 127th St. Archts. est. $350,000. Noted Nov. 3.

O., Toledo—THEATRE and COMMERCIAL—Famous Players Lasky Corp., Paramount Bldg., New York City, 4 story, brick, steel and concrete, 3,000 seating capacity, here, to Lundoff-Bicknell Co., B. F. Keith Bldg., Cleveland. Archts. est. $1,500,000.

Ill., Chicago—APARTMENT and STORE—Leichenko & Esser, archts., 38 South Dearborn St., masonry contract 3 story, 102 x 176 ft., rein.-con., brick and stone, Kedzie and North Aves., to Lind Constr. Co., 6400 South State St.; heatnig, to Krane Eng. Co., 1428 Orleans St.; plumbing, to Fettes-Love-Sieven, Inc., 1426 Irving Park Blvd.; and terra cotta, to Advance Terra Cotta Co., 203 South Dearborn St. Archts. est. $250,000. Noted Nov. 10.

Ill., Chicago — HOTEL — L. Bromberg (owner and builder), 4151 North Troy St., will build 4 story, 50 x 183½ ft., brick and concrete, 1624-26 West Jackson Blvd. $200,000. L. I. Simon, 179 West Washington St., archt.

Ill., Chicago—STORE and OFFICE—Erskine-Danforth Corp., 315 North Michigan Ave., general contract 5 story, 75 x 100 ft., brick and stone, Ontario St. and Michigan Ave., to M. Raven, 326 West Madison St., Archts. est. $300,000. Noted Aug. 18.

Ill., Chicago—Perkins, Chatten & Hammond, archts., 160 North La Salle St., general contract 5 story and basement, 125 x 215 ft., incl. one 50 x 70 ft. and one 33 x 60 ft. gymnasiums, 25 x 60 ft. natatorium, etc., rein.-con., brick and stone, 3333-11 North Marshfield Ave., to W. C. Weiboldt Co., 1534 West Van Buren St., for Y. M. C. A., 19 South La Salle St. Archts. est. $750,000. Noted Aug. 11.

Mo., St. Louis — APARTMENTS — H. Spechter, Arcade Bldg., 3 story and basement, 64 x 85 ft., and 85 x 163 ft., rein.-con., brick and stone, 6152, 6158, 6160, 6168 and 6170 Waterman Ave., to J. Rubin Constr. Co., 904 Chestnut St. Archts. est. $185,000.

Calif., Los Angeles—APARTMENT—W. C. West, 4 story and basement, 90 x 160 ft., brick, Franklin Ave., to E. Flodine, 1449 West 56th St., $175,000.

Calif., Los Angeles—APARTMENT—W. C. West, 4 story, 90 x 160 ft., Franklin Ave., to E. Flodine, 1449 West 56th St., $205,000. Noted Sept. 29.

Calif., Los Angeles—HOTEL and STORE—D. Gordon, brick, 9th and Bonnie Brea Sts., to M. M. Friedman, Detwiler Bldg. Archts. est. $150,000.

Calif., Los Angeles—STUDIO—Mack Sennett Co., Hollywood, 2 story, 100 x 125 ft. administration building, and four 100 x 200 ft. stages, all rein.-con. and steel, incl. power plant, near Ventura Blvd. and Laurel Canyon Rd., here, to Austin Co. of California, 777 East Washington St., $275,000. Noted Sept. 22.

Calif., North Sacramento (mail Sacramento)—THEATRE—P. Prom, 928 27th St., Sacramento, rein.-con. theatre, 1,000 seating capacity, here, to W. C. Keating, forum Bldg., Sacramento, $150,000. Blumenfeld Theatre Circuit, 3910 Fulton St., San Francisco, lessee.

Calif., Piedmont—MAUSOLEUM—Weeks & Day, archts., 405 Montgomery St., San Francisco, concrete mausoleum, to C. Heyer, Mills Bldg., San Francisco, for Mt. View Cemetery. $200,000. Noted Oct. 27.

Calif., Ventura—THEATRE and OFFICE—Amer. Amusement Co., Film Exch. Bldg., Los Angeles, 2 story, rein.-con., 1,750 seating capacity, Main and Chestnut Sts., to Los Angeles Contg. Co., 4816 West Pico St., Los Angeles, approximately $250,000. Noted Sept. 22.

B. C., Vancouver — HOSPITALS — City Council, City Hall, 6 story and basement, 45 x 234 ft., rein.-con. and terra cotta maternity hospital, plain foundation, 12th and Willow Sts., to Hodgson, King & Marble 508 London Bldg., $257,950; also 6 story and basement, 45 x 274 ft., rein.-con. and terra cotta hospital, plain foundation, 12th and Laurel Sts., to Moncrieff & Vistarnet, 501 Shelly Bldg., $315,000, for Vancouver General Hospital, 10th and Heather Sts. Noted Oct. 6.

Que., Montreal—OFFICE—Railway Exchange Building Ltd., 232 St. James St., 11 story, 99 x 170 ft. office building, Craig St. W., to Quinlan, Robertson & Janin, 702 Sherbrooke St. W., $670,000. Noted Mar. 17.

Buildings—Industrial

Proposed Work

Mass., Attleboro—FACTORY—L. G. Balfour & Co., 25 County St., having sketches made by F. B. Perry, 44 Franklin St., Providence, R. I., 2 brick additions. To exceed $40,000. Noted Nov. 3.

Mass., Boston — MANUFACTURING — Meisel Press Mfg. Co., 944 Dorchester Ave., postponed until spring, constructing 1 and 2 story, 100 x 225 ft., brick, plain foundation, Dorchester Ave. To exceed $40,000. H. S. Cleverdon, 46 Cornhill, Boston, archt. Noted Aug. 11.

Mass., Wareham—FACTORY, GARAGE and STOREHOUSE—E. C. St. Jajues, High St., Cranberry Corners, plans 1 and 2 story, brick and timber, plain foundation, Main St. $40,000. Engineer and architect not selected.

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Buildings—Industrial (Continued)

Mass., Webster—REPAIR and SERVICE GARAGE—H. Cohen, 63 Main St., plans 1 story, brick and steel, 57 Main St. $50,000. Engineer and architect not selected.

N. J., Teterboro — AIRCRAFT FACTORY—Gates Day Aircraft Corp., M. J. Finkelstein, 17 Academy St., Newark, plans aircraft factory, here. $100,000. Private plans.

N. J., West New York—MACHINE SHOP—Owner c/o F. J. Ricker, archt., 685 Hudson Ave. having plans prepared 2 story and basement, 25 x 80 ft., brick and steel, plain foundation, 13th and Jackson Sts. $40,000.

O., Akron—FACTORY—Palmen Mfg. Co. having plans prepared by Harpster & Billman, Central Savings & Trust Bldg., 1 story, brick and steel, Darrow St. $40,000.

O., Cleveland—FOUNDRY—Bd. Educ., F. G. Hogen, dir., having plans prepared by G. M. Hopkinson, Auditorium Garage Bldg., Eagle Trade School, 1 story, brick, steel and concrete, Eagle Ave. $40,000.

Mich., Grand Rapids—BAKERY—Kroger Grocery & Baking Co., 817 Main St., Cincinnati, O., having plans prepared 1 and 3 story and basement, 200 x 240 ft., rein.-con. and brick, plain foundation. $50,000. Private plans.

Ill., Chicago — COLD STORAGE — Produce Terminal Cold Storage Co., c/o Henschin & McLaren, archts., 1637 Prairie Ave., having plans prepared 11 story and basement, 108 x 280 ft., rein.-con., 15th Pl. and Throop St. $2,000,000.

Wis., Milwaukee — PIANO and RADIO FACTORY — Waltham Piano Mfg. Co., 1623 Island Ave., plans timber, 1st St. and Island Ave. $100,000. Engineer and architect not selected.

Ia., Marshalltown — PLANT — Fisher Governor Co. having plans prepared by H. E. Reimer, Marshalltown, 1 story and basement, 76 x 120 ft., brick and steel addition, plain foundation.

Neb., Hastings—FACTORY—Jaden Mfg. Co., c/o A. Berck, supt., having preliminary plans prepared by K. H. Gedney & Co., 2nd and Kansas Sts., enlarging factory, 40,000 sq.ft. floor space, West 2nd St. $60,000.

Neb., McCook—AIRPLANE FACTORY—Morton Bros., Lexington, plans airplane factory, here. $50,000. Engineer and architect not selected.

Mo., St. Louis — PLUMBING SUPPLY FACTORY — N. O. Nelson Mfg. Co., 10th and Chestnut Sts., having preliminary plans prepared rein.-con. and brick, Boyle St. $300,000.

Tex., Corpus Christi — BOTTLING PLANT — Southern Bottling Co., c/o J. Ferrell, mgr., soon takes bids 1 story, 50 x 140 ft., rein.-con., brick and tile plant. $70,000. Private plans.

Tex., Del Rio—POWER PLANT, etc.—Central Power & Light Co., c/o E. B. Neiswanger, Frost Bldg., San Antonio, soon lets contract power plant, 1 large and several small dams, on Devil River, 18 mi. from here. $500,000. Private plans.

Tex., Marshall—FACTORY—Dairy Corp., c/o M. Turnet, chn. com., having preliminary plans prepared, etc. factory manufacturing butter, buttermilk, powder and skim milk powder, 80,000 lb. milk daily capacity. $125,000, incl. equipment and machinery. F. H. Douthitt Eng. Co., 139 North Clark St., Chicago, Ill., engrs.

Tex., San Angelo—ICE PLANT—San Angelo Ice Co., c/o M. D. Kennemer, San Angelo, having plans prepared ice plant addition, probably 40 ton capacity. $75,000. Private plans.

Tex., San Antonio — ICE PLANT — City Ice Co., c/o C. S. Dowley, mgr., 142 Camp St., making plans ice plant, 50 ton capacity, rein.-con., brick and steel Pleasanton Rd. and Toudouze St. $75,000. Private plans.

Tex., San Saba—PECAN SHELLING FACTORY—B. McConnell having plans prepared by R. W. Spillman, c/o Alamo Natl. Bank Bldg., San Antonio, concrete, cast stone, hollow tile and brick factory. $40,000 incl complete equipment and machinery.

Okla., Walters—ICE PLANT—L. E. Selman had preliminary plans prepared new 20 ton capacity raw water ice plant. $40,000. Private plans.

Wash., Olympia—POWER PLANT—See "Unclassified."

Ore., Portland — CHAIR FACTORY — Webster Chair Co., F. E. Thomas, mgr., 15th and Thurman Sts., plans chair factory, 27th and Nicols Sts. $50,000 appropriated. Engineer and architect not selected.

Calif., Los Angeles—FACTORY—Pittsburg Plate Glass Co., Frick Bldg., Pittsburgh, Pa., plans factory, here. To exceed $40,000.

Calif., Long Beach—FACTORY—General Motors Corp., 4584 Mayberry St., Detroit, Mich., plans factory in Long Beach Harbor Dist., here. To exceed $150,000.

Calif., Redlands—STORAGE PLANT—Mountain Ice Water Co., San Bernardino, having plans prepared by H. E. Jones, 404 Katz Bldg., San Bernardino, 2 story, brick and concrete, Tennessee and Colton Aves. $50,000.

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Bids Desired

Mass., North Darmouth—PLANT—See "Contracts Awarded."

Mass., Roxbury (Sta. Boston) — FACTORY — Chickering & Sons, 791 Tremont St., Boston, taking bids altering and reconstructing 1 story, rein.-con. and steel, plain foundation, 18 Station St., here. $40,000 or more. Monks & Johnson, 99 Chauncy St., Boston, archts.

Mass., South Lawrence (mail Lawrence) —ARTIFICIAL ICE PLANT—B. L. McDonald Co., 398 Essex St., taking bids 1 story, 60 x 190 ft., brick and steel, plain foundation, Andover St. $40,000. Funk & Wilcox, 26 Pemberton Sq., Boston, archts.

Conn., Norwalk—FACTORY—Nov. 29, by Ballinger Co., archts., 100 East 42nd St., New York City, and 2 story and basement, 91 x 153 ft., brick and steel addition, plain foundation, Main St., here, for E. H. Hotchkiss Co., 6-12 Hoyt St. Noted Nov. 17.

N. J., Paterson—BOILER HOUSE—Lee & Hewitt, archts., 152 Market St., taking bids general contract 1 story and basement, 50 x 70 ft., brick and steel, plain foundation, Railroad and 4th Ave., for H. H. Brown & Sons Co., 15 4th Ave. $40,000.

Ind., Cambridge City—MACHINE SHOP—Western Oil & Refining Co., 310 North Meridian St., Indianapolis, taking bids brick and steel machine shops, tire and battery filling station, here, $40,000. Bishop, Knowlton & Carson, 312 North Meridian St., Indianapolis, archts.

Contracts Awarded

Mass., Everett (br. Boston) — SHOP — Melanson Bros., Inc., 67 Chelsea St., 1 story and basement, 75 x 115 ft., rein.-con. and brick, plain foundation, Chelsea St., to Bond Bros., 79 Ferry St. Archts. est. $40,000. Noted Nov. 3.

Mass., North Darmouth — ICE HOUSE and REFRIGERATING PLANT — A. Lagasse, 2147 Pleasant St., Fall River, will rebuild ice house and refrigerating plant, Reed Rd., here, by day labor. $50,000. Private plans.

Mass., Quincy (Ind. br. Boston)—ICE PLANT—Granite City Ice Co., Inc., 550 Adams St., 1 story, 8,000 sq.ft. floor space, brick, steel and stone, plain foundation, to W. A. Sanborn, 79 Milk St., Boston.

Mass., Somerville (br. Boston) — MACHINE SHOP and FOUNDRY — F. G. Volpe, Hager St., Arlington, 1 story, 50 x 100 ft., rein.-con., plain foundation, 14 Kent St., to I. Scolari, 3 Chandler St., Medford.

Mass., Somerville (br. Boston)—FACTORY—Birch Bros., 32 Kent St., altering and reconstructing 2 story, timber Kent St., to A. Allcock, Fallon Rd., Lexington.

Mass., Worcester—WAREHOUSE—G. E. Strehan, engr., 112 West 42nd St., New York City, 2 story and basement, 132 x 336 ft., rein.-con. and brick, Hammond and Tainter Sts., here, to Aberthaw Co., 80 Federal St., Boston, for Melville Shoe Corp., 191 Hudson St., New York City. Noted Nov. 17.

Conn., Bristol—PLANT—New Departure Mfg. Co., 269 North Main St., 2 story and basement, 52 x 90 ft., rein.-con., brick and steel, addition to factory 17, Race St., to J. D. Devine, Woodland St. Archts. est. $40,000.

N. J., Kearny (Sta. Arlington)—PLANT—Western Electric Co., Inc., Lincoln Highway, steel contract for 1 story, 100 x 350 ft., brick and steel concrete pile foundation, Lincoln Highway, to McClintic Marshall, 50 Church St., New York City. Archts. total est. $200,000. Noted Oct. 6.

N. J., Hoboken — FURNITURE FACTORY—Ferguson Bros. Mfg., Co., 832 Monroe St., general contract 2 story and basement, rein.-con., brick and steel, 704-20 Monroe St., to Lemouze Bros., Inc., 111 8th St., West New York, N. J. Archts. est. $200,000. Noted Oct. 27.

Pa., Erie — MANUFACTURING — Weil McLain Co., Michigan City, Ind., will build 80 x 300 ft. and 120 x 500 ft., brick and steel buildings, both 1 story, here. $250,000. Private plans.

Pa., Greenville — WAREHOUSE — Penn Power Co., Greenville, general contract 2 story and basement, 70 x 90 ft., brick and hollow tile, Acker Way, to H. W. Bell, Greenville. Engrs. est. $40,000.

Pa., Neville Island (Pittsburgh P. O.)—MANUFACTURING—Neville Chemical Co., general contract 1 story, brick and steel, concrete foundation, here, to Austin Co., Union Trust Bldg., Pittsburgh. Archts. est. $50,000.

Pa., Phila.—FACTORY—J. B. Hazlett, 2442 South Broad St., 2 story and basement, 56 x 187 ft., factory, Indiana and Ridge Rds., to McCormick-Lenham Co., 2403 South Broad St.

Pa., Phila.—FACTORY—Ballinger & Co., archts., 12th and Chestnut Sts., 2 story and basement, 120 x 950 ft., brick and steel, plain foundation, Tulip and Aramingo Sts., to W. Steele & Son, 15th and Cherry Sts., for Watson Realty Co. (J. W. Watson Co.), 24th and Locust Sts. This corrects report in Nov. 3 issue.

N. C., Statesville—SILK MILL—Gagne Mfg. Co., Adams, Mass., general contract 1 story, 92 x 216 ft. silk mill, here, to Grier-Lowrance Constr. Co., Statesville. Noted Oct. 27.

Fla., Tampa—POWER PLANT—Tampa Electric Co., Tampa and Cass Sts., new power plant on 22 acre site, Hookers Point, to Stone & Webster, Inc., 147 Milk St., Boston, Mass. Engrs. est. to exceed $5,000,000.

O., Cleveland — FACTORY — Properties Co., 879 East 70th St., 2 story and basement, 80 x 187 ft., brick and rein.-con., 875 East 70th St., to Uhl-Jaster Co., 2341 Carnegie Ave. Archts. est. $75,000.

O., Cleveland — COLD STORAGE and ICE PLANT — City Ice & Fuel Co., c/o E. C. Balzhiser, 6611 Euclid Ave., 6 story and basement, 200 x 200 ft., brick and rein.-con., East 37th St. and Burwell Ave., to Bloom-Sinek Co., 33 South Clark St., Chicago, Ill. Archts. est. $600,000.

Ill., Chicago—FACTORY—Russakov Can Co., Carpenter St. and Ogden Ave., masonry contract 1 story, 194 x 323 ft., brick, 844-62 North Ogden Ave., to H. Barth, 3128 North Kenneth Ave. Archts. est. $110,000.

Ill., Chicago—LUMBER WAREHOUSE—A. Epstein, archt., 2000 West Pershing Rd., masonry contract 2 story, 85 x 180 ft., brick, 3900 Pershing Rd., to Brockob Constr. Co., 815 South Cicero Ave., for Pershing Road Warehouse Co., 3900 Pershing Rd. Archts. est. $96,000. Noted Oct. 6.

Ia., Dubuque — FACTORY — Maisewood Products Co., 3 story 60 x 450 ft., steel and asbestos protected metal, plain foundation, to W. L. Yocum, Dubuque, $80,000. Noted June 30.

Minn., Austin—BOILER HOUSE—City, 1 story and basement, 50 x 89 ft., rein.-con., brick and steel, plain foundation, to Tapager Constr. Co., Albert Lea, $49,467.

Mo., St. Louis—ICE STORAGE PLANT—Polar Wave Ice & Fuel Co., 3638 Olive St., 1 story, 75 x 130 ft., rein.-con. and brick, 6801 Arsenal St., to Woermann Constr. Co., 1441 Syndicate Trust Bldg. Archts. est. $60,000.

Mo., St. Louis — STOVE FACTORY — Bucks Stove & Range Co., 350 North 2nd St., repairing and altering 2 story and basement, brick and timber, North 2nd St., damaged by tornado, to Frantz & Frantz Constr. Co., 4654 Loughborough St. Archts. est. $45,000.

Tex., Galveston — DAIRY — Galveston Model Dairy Co., 706 23rd St., general contract 1 story, 42 x 120 ft. dairy plant, to Johnson Bros., Guaranty Bldg., $40,000. Noted Oct. 13.

Japan, Yokohama — FACTORY and WAREHOUSE — Ford Motor Co., Highland Park, Detroit, Mich., 1 story, 300 x 480 ft., brick and steel, here, to H. K. Ferguson Co., Hanna Bldg., Cleveland, O. Archts. est. $1,000,000.

Buildings—Educational, Religious

Proposed Work

Me., South Portland (br. Portland) — CHURCH — Calvary Roman Catholic Church, Main St., plans church, Main St. $150,000 or more. Engineer and architect not selected.

Mass., Fall River—TERMINAL HIGH SCHOOL—City, W. Pritchard, chn. com., takes bids after Nov. 22, 3 and 5 story and basement, 150 x 240 ft., brick, steel, stone and granite, plain foundation, Rock St., here. $1,000,000. E. H. Corbett, 70 Bedford St., New Bedford, archt. J. F. Cullen, 29 Newbury St., Boston, advisory archt. Noted Sept. 15.

Mass., Grafton—HIGH SCHOOL—Town, A. S. Cole, receiving competitive plans altering and constructing high school addition. $150,000. Engineer and architect not selected.

Mass., Hingham—HIGH SCHOOL—Town, Bd. Educ., Town Hall, plans rebuilding high

Buildings—Educational, Religious (Cont.)

school, recently destroyed by fire. To exceed $150,000. Engineer and architect not selected.

Mass., Lynn — NURSES HOME — Lynn Hospital, 212 Boston St., having preliminary sketches made by Sanborn & Weed, 38 Exchange St., nurses home on hospital grounds. $150,000 or more.

Mass., Medford (br. Boston) — MEN'S DORMITORY—Tufts College, J. A. Cousens, pres., having plans prepared by Andrews, Jones, Biscoe & Whittmore, 50 Congress St., Boston, 3 story and basement, brick and limestone, plain foundation, college grounds. $150,000.

Mass., New Bedford—CHURCH—Trinitarian Church, 636 Purchase St., having plans prepared by Cram & Ferguson, 248 Boylston St., Boston, and C. Hammond & Son, associated archts., 179 North Water St., church and parish house, Hawthorn St. To exceed $150,000.

N. Y., Freeport—SCHOOL—Bd. Educ. having plans prepared by W. S. Bessell, 58 West 49th St., addition, Archer St. $275,000.

N. Y., Great Neck—HIGH SCHOOL—Bd. Educ. having plans prepared by Guilbert & Betelle, 20 Branford Pl., Newark, 3 story and basement, brick and steel, plain foundation, near Nirvana Ave. $800,000. Noted July 14.

N. J., Gladstone—ORPHANAGE—Villa O'Connor plans 3 story and basement, brick and steel, plain foundation. $150,000. Engineer and architect not selected.

N. J., Hillside (br. Elizabeth)—SCHOOL—Bd. Educ., Town Hall, plans 2 story and basement, brick and steel, plain foundation. $200,000. Engineer and architect not selected.

N. J., Madison—LIBRARY and DORMITORY—Drew Theological Seminary, 36 Madison Ave., plans brick and steel, plain foundation. $500,000 funds being raised for same. Engineer and architect not selected.

N. J., Newark — HIGH SCHOOL — Bd. Educ., City Hall, Broad and Green Sts., having plans prepared by Guilbert & Betelle, 20 Branford Pl., 3 story and basement, brick and steel addition to West Side High School, plain foundation, South Orange Ave. $225,000. Noted Oct. 13.

N. J., North Plainfield (mail Plainfield) —SCHOOL—St. Josephs Church, W. A. Giffillan, pastor, 43 Manning Ave., having plans prepared 2 story and basement, brick and steel, plain foundation, Manning Ave. $150,000. Private plans.

N. J., Paterson—SCHOOL—J. C. Van Vlandren, archt., 140 Market St., takes bids about Nov. 30, 2 story and basement, brick and steel, plain foundation, North 8th St., for Eastern Academy, 273 North 7th St., Prospect Park Sect. $150,000. Noted Oct. 20.

N. C., Raleigh—HIGH SCHOOL—City, H. F. Srygley, supt. schools, plans high school, 800 to 1,000 seating capacity, on Smallwood property in western section city. $500,000.

Ga., Augusta—NURSES HOME—City, c/o J. W. Westmoreland, rejected bids 3 story nurses home. $175,000. Noted Oct. 27.

O., Cleveland—SCHOOLS—Voted Nov. 8, $1,500,000 bonds, Robert Fulton Elementary School, East 140th St. and Byron Ave., $494,000; Oak Park Elementary School, West 30th St. and Oak Park, $494,000; and 2 new Junior High Schools, all foregoing 2 story and basement, brick, steel and concrete. G. M. Hopkinson, Auditorium Garage Bldg., archt. Noted Sept. 1.

O., Hamilton—SCHOOL—Voted $1,500,000 bonds, new school.

O., Hamilton — SCHOOL — Butler Co. voted $150,000 bonds, new school in Fairfield Twp.

O., Harrison (Dayton P. O.)—SCHOOLS —Voted $625,000 bonds, new schools.

O., Massillon — SCHOOL — St. Marys Roman Catholic Church, N. A. Hassel, pastor, having sketches made by Potter, Gabele & Co., Prospect-4th Bldg., Cleveland, 2 story and basement, brick, steel and concrete school. $200,000.

O., Oakwood (Dayton P. O.)—SCHOOLS —Voted $324,000 bonds, new schools.

O., Van Buren Twp. (Dayton P. O.)—SCHOOL — Voted $500,000 bonds, new school.

O., Youngstown — SCHOOL — Bd. Educ. Mahoning Co. plans brick building adjoining present school, Boardman Twp. $150,000.

Ind., Bloomington — FIELD HOUSE — Indiana University soon takes bids 1 story, 30 x 200 ft., 15,000 seating capacity, rein.-con., brick and steel indoor field house, $200,000. R. F. Daggett, 922 Continental Bank Bldg., Indianapolis, archt. Noted Oct. 6.

Ind., Evansville — HIGH SCHOOL — School Comrs. having preliminary plans prepared by Fowler & Karges, Furniture Bldg., 2 story and basement, rein.-con., brick and steel, Garvin and Bellemeade Sts. $300,000.

Ill., Chicago—ART INSTITUTE—Art Institute of Chicago, C. H. Burkholder, secy., Michigan Ave. and Adams St., having sketches made addition, Michigan Ave. and Adams St. $5,000,000-$12,000,000. Engineer and architect not selected.

Minn., Minneapolis—BIBLE INSTITUTE —Lutheran Bible Institute, S. Miller, dean, 226 Fairview Ave. S., St. Paul, having plans prepared by A. Dahlstrom, 116 Oak Grove St., 12 story and basement, rein.-con. and brick, Portland Ave. and 17th St., here. $500,000.

Minn., Minneapolis—MEN'S DORMITORY —University Minneapolis, F. R. Snyder, pres. Bd. Regents, having plans prepared by C. H. Johnston, 360 Robert St., St. Paul, 3 story and basement, rein.-con., brick and stone, on campus. $300,000.

Neb., Lincoln — HIGH SCHOOL — Bd. Educ., J. G. Ludlam, secy., having plans prepared by Davis & Wilson, 525 South 13th St., and takes bids early in 1928, Junior High School, 2 story and basement, 130 x 265 ft., rein.-con., brick and stone, between 11th, 12th, B and C Sts. $300,000. Noted June 22.

Neb., Lincoln — NURSES HOME — St. Elizabeths Hospital, South St., having preliminary plans prepared by D. X. Murphy & Bros., Louisville Trust Bldg., Louisville, Ky., 4 story and basement, rein.-con., brick and stone, 13th and South Sts. $150,000.

Kan., Wellington—HIGH SCHOOL—Bd. Educ. had plans prepared by Schmidt, Boucher & Overend, 4th Natl. Bank Bldg., Wichita, and soon takes rein.-con., brick and stone high school. $300,000. Noted Aug. 25.

Mo., St. Louis—NEUROLOGICAL INSTITUTE—Washington University School of Medicine, 602 South Euclid Ave., having preliminary plans prepared rein.-con., brick, steel and stone, Scott Ave. $350,000.

Mo., Springfield—SCHOOLS—Bd. Educ. having preliminary plans prepared by C. A. Smith, 800 Finance Bldg., Kansas City, new rein.-con., brick and stone schools, also additions to exsiting schools. $1,750,000 bond election soon for same. Noted Mar. 24.

Tex., Denton—DORMITORY—College of Industrial Arts, c/o L. H. Hubbard, pres., having plans prepared by S. Simons, Lufkin, fireproof dormitory. $150,000. Noted Nov. 17.

Tex., Port Arthur—SCHOOL—Bd. Educ. plans schools. $1,500,000. M. Lemmon, 407 Const-Ind. Bldg., Dallas, archt. Noted Oct. 20.

Okla., Ada — HIGH SCHOOL — Voted $190,000 bonds, 3 story and basement, rein.-con. and brick, plain foundation, for Bd. Educ. Engineer and architect not selected.

Okla., Konawa — HIGH SCHOOL — Bd. Educ., having preliminary plans prepared brick, plain foundation. $150,000. Engineer and architect not selected.

Okla., Okmulgee—HIGH SCHOOL—Bd. Educ. had plans prepared by Smith & Senter, Commerce Investment Bldg., 4 story and basement, 75 x 80 ft., rein.-con. and brick, plain foundation, 7th St. $150,000.

Ore., Hillsboro—SCHOOL—Comrs. Union High School Dist. 3, having plans prepared by F. M. Stokes, Chamber of Commerce Bldg., Portland and take bids about Jan. 1, 2 story and basement, 100 x 250 ft., rein.-con. and brick, plain foundation. $175,000.

Calif., Stockton—LIBRARY—College of Pacific having plans prepared by Davis-Pearce Co., Grant and Weber Sts., 2 story, brick, on campus. $225,000.

Ont., Hamilton — SYNAGOGUE — Beth Hacob Synagogue, Hunter and Park Sts., plans 1 and 2 story and basement, rein.-con., brick and steel, plain foundation, Hunter and Park Sts. $150,000. Engineer and architect not selected.

Bids Desired

Mass., Wellesley—AUDITORIUM—Dana Hall School, H. T. Cooke, principal, 66 Grove St., taking bids 2 story, 60 x 100 ft., brick, plain foundation. $150,000. Henry & Richmond, 12 West St., Boston, archts. Noted Aug. 4.

N. Y., New Rochelle—CHURCH—Jan. 1, by First Presbyterian Church, c/o A. Reynolds, 170 Elm St., and J. R. Pope, archt., 542 5th Ave., New York City, 1 story, brick, Main St., here. $450,000. Noted Oct. 27.

N. Y., New York—SCHOOL—Dec. 8, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn general contract P. S. 7, Kingsbridge Ave. and West 232nd St., here, for Bd. Educ., 500 Park Ave.

N. J., Teaneck (mail West Englewood) —HIGH SCHOOL—Dec. 6, by Bd. Educ., Town Hall, general contract 3 story and basement, 250 x 250 ft., brick and steel, plain foundation. $650,000. Hacker & Hacker, Fort Lee Trust Bldg., Fort Lee, archts. Noted Aug. 25.

Pa., State College—RECREATION—Dec. 7, by Penna. State College, 3 story and basement, 169 x 224 ft., brick, steel and stone, plain foundation, here. C. Z. Klauder, 1429 Walnut St., Phila., archt.

D. C., Wash.—SCHOOL—Dec. 8, by District Comrs., District Bldg., 8 room addition, combination gymnasium and assembly hall, and alterations at Bernard School, containing 394,000 cu.ft. floor space. Noted Sept. 29.

Ga., Thomasville—CHURCH—Dec. 15, by R. G. Fleetwood, of First Baptist Congregation, 3 story and basement, 100 x 125 ft., brick, steel and rein.-con. church. $150,000. N. S. Hamilton, Wynne Claughton Bldg., Atlanta, archt.

Ky., Louisville — SCHOOL — Dec. 8, by Bd. Educ., 8th and Chestnut Sts., 3 and 4 story and basement, irregular shaped, rein.-con., brick and steel, plain foundation, 40th and Herman Sts. $800,000. C. M. Cooley, c/o owner, archt. Noted Nov. 17.

Ind., Elkhart—HIGH SCHOOL—School Comrs. taking bids 2 story and basement, 83 x 123 ft., brick and steel high school, $150,000. H. Miller, 531 Monger Bldg., archt.

Ind., Indianapolis—SCHOOL—Dec. 5, by School Comrs., 150 North Meridian St., School 73, 2 story and basement, rein.-con., brick and steel, 4101 East 30th St. $155,000. B. Williams, 1139 Knight of Pythias Bldg., engr. Harrison & Turnock, 500 Bd. of Trade Bldg., archts.

Ind., Muncie—TRAINING SCHOOL—Nov. 29, by State Normal, 1 story, 116 x 262 ft., rein.-con., brick and steel, on campus Ball Teachers College, $275,000. Snyder & Babbitt, 1212 Hayden Bldg., Toledo, O., archts. Noted July 14.

Mich., Berrien Springs—SCHOOL—Nov. 28, by Bd. Educ., 2 story and basement, 66 x 190 ft., rein.-con., brick and steel, plain foundation. $150,000. Van Leyon, Schilling & Keough, 3440 Cass Ave., Detroit, archts. Noted Nov. 3.

Mich., Grand Rapids—SCHOOL—Nov. 30, by H. N. Morrill, bus. mgr. Bd. Educ., 3 story and basement, rein.-con., brick and steel, plain foundation, Eastern Ave. $300,000. Turner & Thebaud, 925 Michigan Trust Bldg., archts. Noted Sept. 8.

Mich., Troy — SCHOOL — Van Leyen, Schilling & Keough, archts., 3440 Cass Ave., Detroit, taking new bids 2 story and basement, 125 x 165 ft., rein.-con., brick and steel, plain foundation, for Bd. Educ. $150,000.

Wis., Wauwatosa — HIGH SCHOOL — Nov. 28, by Herbst & Kuenzli, archts., 130 Wisconsin Ave., Milwaukee, 3 story, 40 x 40 ft., and 135 x 160 ft., rein.-con. and brick, plain foundation, Wauwatosa St. and 1st Ave., for Bd. Educ.

Kan., Hays—SCIENCE HALL—Jan. 10, by H. E. Shrack, state bus. mgr. Kansas State Teachers College, 3 story and basement, 51 x 210 ft. and 81 x 105 ft., rein.-con. and stone science hall. $160,000. C. D. Cuthbert, State House, Topeka, archt. Noted Oct. 27.

Kan., Independence—CHURCH—Dec. 10, by J. H. Felt & Co., archts., 300 West 47th St., Kansas City, Mo., 2 story and basement, rein.-con. and stone, here, for Presbyterian Congregation, C. A. Smith, c/o Independence Millwork Co., chn. building com. $150,000. Noted Nov. 3.

Calif., Los Angeles—CONVENT—Convent of Good Shepherd, 1312 South Arlington Ave., taking bids 4 story and basement, 35 x 225 ft. with two 2 story 30 x 100 ft., and 30 x 60 ft. wings, rein.-con., 1500 South Arlington Ave. $250,000. Noted Feb. 24.

Contracts Awarded

R. I., Providence — CHURCH and SOCIAL SERVICE—Tabernacle Methodist Episcopal Church, G. D. Stanley, pastor, 2 story and basement, 50 x 100 ft., and 60 x 100 ft., brick, plain foundation, Plainfield St., to A. W. Merchant, Inc., 728 Hospital Trust Bldg. Archts. est. $150,000. Noted Oct. 27.

Conn., Storrs—COLLEGE—Connecticut Agriculture College, F. L. Salmon, state comptroller, 3 story and basement, 60 x 110 ft., and 60 x 220 ft., brick, steel, and limestone laboratory, classroom and administration building, to C. Smith & Sons, Inc., 254 Main St., Derby, $343,930. Noted Oct. 27.

N. Y., Binghamton—HIGH SCHOOL—Bd. Educ., general contract addition St. Johns Avenue School, to F. W. O'Connell, 7 Beacon St., $155,000.

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Buildings—Educational, Religious (Cont.)

N. Y., Buffalo—SCHOOL—Bd. Educ., 3 story and basement, brick, steel and concrete addition to P. S. 9, to M. B. Parker Constr. Co., 1836 Euclid Ave., Cleveland, O. Archts., est. $270,000.

N. J., New Brunswick—SCHOOL—Bd. Educ., Livingston Ave., general contract 2 story and basement, 55 x 130 ft., brick and steel, plain foundation, Wyckoff and Bartlett Sts., to J. L. Snitzler, Commercial Ave., $111,887. Noted Aug. 18.

N. Y., Tarrytown—LIBRARY—Village, general contract 1 story library, to E. L. Smith Constr. Co., 70 East 45th St., New York City. Archts. est. $200,000.

N. J., Parsippany (mail Boonton)—SCHOOL — Bd. Educ. Hanover Twp. Morris Co., Whippany School, Whippany, general contract Parsippany-Troy Hills School, here, to Bontempo & D'Annunzzi, 8 Flagler St., Morristown.

Pa., Mt. Lebanon (Pittsburgh P. O.)—CHURCH—Mt. Lebanon Presbyterian Congregation, West Liberty Ave., general contract 1 and 2 story and basement church, here, to E. A. Wehr, E. E. Savings & Trust Bldg., Pittsburgh. Archts. est. $150,000. Noted Sept. 1.

Pa., Phila.—DORMITORY and SERVICE—Bd. Educ., J. D. Cassell, supt. buildings, 19th and Chestnut Sts., Thomas Shallcross School for Boys, 2.5 story and basement, 78 x 177 ft. dormitory, and 1 story and basement, 86 x 101 ft. service building, rein.-con., brick and steel, plain foundations, Andalusia Turnpike and Byberry Rd., to R. S. Herzog, 10 South 18th St., $328,680. Noted Nov. 3.

Md., Baltimore—CHURCH—St. Ambrose Roman Catholic Church, H. E. Monoghan, pastor, Park Heights and Wylie Aves., rein.-con., brick and stone, Park Heights and Wylie Aves., to M. A. Long Co., 10 West Chase St., $150,000. Noted Oct. 20.

Md., Baltimore—MEDICAL LIBRARY—E. L. Tilton, archt., 141 East 45th St., New York City, 3 story and basement, 76 x 156 ft., rein.-con., brick and limestone, Wolfe and Monument Sts., here, for Johns Hopkins Hospital, Wolfe and Monument Sts., to Consolidated Eng. Co., 20 East Franklin St., $400,000. Noted Oct. 27.

D. C., Wash.—HIGH SCHOOL—District Comrs., District Bldg., constructing Gordon Junior High School, here, to G. E. Wyne, 13th St. and Dogwood Ave., N. W. $495,000. Noted Oct. 20.

Ala., Tuscaloosa—COLLEGE—Bd. Trustees State Building Comn., Montgomery, 3 story, 66 x 200 ft., brick, concrete limestone and steel, on campus, here, for Alabama University, to Day & Sachs, 1818 2nd Ave. N., Birmingham. $185,000.

O., Columbus — HIGH SCHOOL — Bd. Educ., W. V. Drake, clk., general contract Junior High School, 2 story and basement, 200 x 250 ft., brick, terra cotta and concrete, Indianola Ave., to Boyajohn & Barr, 299 Park St., $331,693. Noted Oct. 20.

O., Youngstown—HIGH SCHOOL—City, Junior High School, to Hawkins-Downie Co., 630 Market St., $244,000.

Ind., Indianapolis — SCHOOL — State Blind School, general contract 2 story, rein.-con., brick and steel, incl. administration, industrial, commissary and 3 dormitories, 75th St. and College Ave., to Service Constr. Co., 301 Castle Hall Bldg., $371,364. Noted Oct. 20.

Mich., Detroit—CHURCH—Grand River Methodist Episcopal Church, Grand River Ave. (1st unit) 1 and 2 story and basement, 100 x 120 ft., brick, steel and stone, plain foundation, West Chicago Blvd., to Corrick Bros., 507 Owen Bldg. Archts. est. $200,000.

Ill., Chicago—SYNAGOGUE—E. P. Steinberg, archt., 360 North Michigan Ave., masonry contract 3 story, 105 x 125 ft. synagogue, 1439-47 Pratt Blvd., to J. McHugh & Sons, 840 West 70th St.; plumbing, to H. P. Reger & Co., 106 North La Salle St.; heating, to Krane Eng. Co., 1428 Orleans St.; and carpentry, to I. E. Bass 5688 Magnolia Ave., for Temple B'Nai Zion, c/o architect. Archts. est. $250,000 Noted Sept. 15.

Ill., Oak Park—FIELD HOUSE, GYMNASIUM, etc.—Bd. Educ., general contract 2 story, 193 x 246 ft. field house, and 2 story, 125 x 171 ft. gymnasium, incl. swimming pools, etc., East and Seville Aves. and Ontario and Lake Sts., to H. D. Moreland & Co., 3701 Sheffield Ave., Chicago. Archts. eset. $300,000 each.

Mo., Kansas City—NURSES HOME—Dept. Pub. Wks., M. S. Murray, dir., general contract, brick and rein.-con., 23rd St. and Gillham Rd., to Sharp Bros. Contg. Co., 609 Orear Leslie Bldg., $150,000. Noted Nov. 3.

Mo., Webster Groves (Ind. br. St. Louis)—DORMITORY—H. P. Hess, archts., 1001 Ambassador Bldg., St. Louis, general contract 5 story, 36 x 128 ft., and 34 x 162 ft., brick, stone and rein.-con., Lockwood and Plymouth Aves., here, to Gillespie & Daly, 714 International Life Bldg., St. Louis, for Webster Groves College. Archts. est. approximately $350,000. Noted Sept. 22.

Tex., Sherman — ADMINISTRATION — Kid-Key College, c/o E. Spurlock, pres., general contract 3 story, 50 x 100 ft., rein.-con., brick terra cotta and hollow tile, to Max Gibbs & Son, Sherman. Archts. est. $275,000. Noted Aug. 25.

Calif., Los Angeles—CLASSROOM—University of Southern California, 3 and part 4 story, 117 x 119 ft., rein.-con., on campus, to Scofield Eng.-Constr. Co., Pacific Finance Bldg., $250,000.

Calif., Oakland—SCHOOL—School Dist., 2 story, brick addition, to McClymonds School, 26th and Filbert Sts., to J. E. Branagh, 184 Perry St., $128,750.

Ont., Hamilton — SCHOOL — Dept. Pub. Wks., Parliament Bldgs., Toronto, general contract 3 story and basement, 60 x 100 ft., 55 x 75 ft., and 16 x 36 ft., rein.-con., brick and steel, plain foundation, Wentworth St. N., to W. H. Yates Constr. Co., 17 Main St. E. Archts. est. $200,000.

Ont., St. Catharines — CONVENT — Carmelite Sisters, general contract 3 story and basement, rein.-con., brick and steel, plain foundation, Yate St., to Newman Bros., 75 St. Paul St. Archts. est. $150,000.

Ont., Toronto—CHURCH—J. G. Morton, archt., 61 Dixon Ave., general contract 1 and 2 story and basement, rein.-con., brick and steel, plain foundation, Roncesvalles and Hewitt Aves., to Gatehouse Bros., 77 Victoria St., for High Park Baptist Church, 16 Redford Ave., J. Linton, pastor. Archts. est. $150,000. Noted Sept. 22.

Federal Government Work

Proposed Work

N. Y., Brooklyn—Sprinkler—Spec. 5418—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans extending sprinkler system, Navy Yard, here.

Md., Annapolis—Dredging—Spec. 5513—Bureau Yards & Docks, Navy Dept., Wash., D. C., Oct. 26, rejected bids dredging at Naval Academy, here. Noted Nov. 3.

Fla., Miami Beach (br. Miami)—Jetties—U. S. Engineer Office, Jacksonville, plans extending North and South Jetties, and repairing revetment at shore end of South Jetty, here.

Fla., Pensacola — Compass House and Pigeon Loft—Spec. 5468—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans compass house and pigeon loft at Naval Air Station, here.

Ky., Louisville — River and Harbor Work—U. S. Engineer Office plans maintenance and improvement existing river and harbor works, Lock and Dam 52, Ohio River.

Minn., Hastings—Lock and Dam—U. S. Engineers Office, 516 Bremer Arcade, St. Paul, plans steel and concrete lock chamber and 3,500 ft. dam with tainter gate discharge sections, on pile foundations, with steel cutoff wall, here.

Mo., St. Louis—Motor—U. S. Engineer Office plans 940 hp. d.c. motor for U. S. Dredge "Fort Gage."

Bids Desired

Mass., Boston — Garage — Nov. 30, by Treas. Dept., at office Superv., Archt., Wash., D. C., 3 story 115 x 300 ft. garage, 176-194 Ipswich St., here, for U. S. Post Office Dept., Wash., D. C.

N. Y., Rochester—Changes—Dec. 13, by Treas. Dept., at office Supervising Archt., Wash., D. C., changes at U. S. Post Office, here.

Del., Bethany Beach—Mess Halls, etc.—Nov. 30, by Office U. S. Property & Disbursing Officer, Wilmington, 13 mess halls, 1 administration building, 1 storehouse, 1 power house, water and sewerage system, etc., here.

D. C., Wash.—Boilerhouse and Heating System—Dec. 1, by Quartermaster, Bolling Field, constructing boiler house and heating system, in Hangars 1, 2, 3, 4, 5, 6 and 10, also utilities at Bolling Field, here.

Ga., Savannah—Quarters—Dec. 19, by Treas. Dept., at office Supervising Archt., Wash., D. C., medical officers quarters U. S. Marine Hospital, here. J. A. Wetmore, acting superv. archt. Noted Nov. 17.

Tenn., Nashville—Rip Rap—See "Contracts Awarded."

Tex., Galveston—Tug—Dec. 17, by U. S. Engineer Office, constructing one 65 ft. 6 in. steel tug; adv. E. N.-R. Nov. 24.

Calif., Los Angeles—Dredging—Dec. 9, by U. S. Engineer Office, 725 Central Bldg., dredging Los Angeles Harbor.

T. H., Pearl Harbor — Quarters, etc. — Spec. 5338—Jan. 18, by Bureau Yards & Docks, Navy Dept., Wash., D. C., quarters, laboratory and animal house, at Naval Operating Base (Hospital), here. Noted Nov. 3.

Bids Received

N. Y., Fort Wadsworth (mail Staten Island)—Barracks — Constructing Quartermaster, 39 Whitehall St., New York City, Nov. 15, constructing Battalion barrack building, here, from Murch Bros., Railway Exch. Bldg., St. Louis, Mo., $306,000. Noted Nov. 10.

Ark., Hot Springs — Steam Distribution Lines—Constructing Quartermaster, Army and Navy General Hospital, Nov. 3, outside distribution lines, etc., from J. L. Powers, Bennettsville, S. C., $16,900 (120 days). Noted Oct. 13.

Porto Rico, San Juan—Quarters—Spec. 5448—Bureau Yards & Docks, Navy Dept., Wash., D. C., Nov. 16, double quarters, at Naval Radio Station, here, from Benitez & Gautier, Sauturce, $9,500. Noted Oct. 20.

Contracts Awarded

New York—Dredging—U. S. Engineers Office, Army Bldg., 39 Whitehall St., New York City, dredging 37,100 cu.yd. place measurement, in Browns Creek, here, to Heling Constr. Corp., Lindenhurst, $11,501. Noted Nov. 3.

D. C., Anacostia—Air Station and Radio Towers — Spec. 5508 — Bureau Yards & Docks, Navy Dept., Wash., D. C., Naval Air Station and radio towers, here, to Pittsburgh-Des Moines Steel Co., Professional Bldg., Pittsburgh, Pa., $6,880 (120 days). Noted Nov. 3.

La., New Orleans—Levee Work—U. S. Engineer Office, Turner Bayou Levee, to J. A. Lindstrom, Port Arthur, Tex., $49,050; and Lot 2 in Ben Hur Levee, Ponchartrain Levee Dist., to Lower Coast Constr. Co., Godchaux Bldg., $34,320, and Lot 1 to be done by government work.

Tenn., Nashville—Rip Rap—U. S. Engineer Office will rip rap river embankment at Lock 2, in Cumberland River by own forces. $25,000.

Tex., El Paso—Mezzanine—Treas. Dept., at office Supervising Archt., Wash., D. C., mezzanine floor, etc. at U. S. Post Office, here, to G. Gilchrist, 618 Mills St., $4,605. Noted Nov. 10.

Wash., Puget Sound — Motor Generator Sets—Spec. 5447—Bureau Yards & Docks, Navy Dept., Wash., D. C., motor generator sets at Navy Yard, here, to General Electric Co., River Rd., Schenectady, N. Y., $65,128 (200 days). Noted Nov. 10.

P. I., Cavite—Officers Quarters—Spec. 5395—Bureau Yards & Docks, Navy Dept., Wash., D. C., 3 sets commissioned officers quarters at Naval Fuel Depot Reservation, here, to J. E. Grant, 129 Calle Padre Faura, Manila, $30,000 (160 days).

FEDERAL POWER COMMISSION

Application for License and Permits

Applications

840—J. Marty, Sr., Broadhead, Wis., wants license power project within Tongass Natl. Forest, Southeastern Alaska, near Juneau, on Spruce Creek.

841—J. M. DeCoster, L. Poitevin and S. Meikle, Idaho Falls and Victor, Idaho, wants preliminary permit power project on Palisade Creek, tributary of Snake River, within Targhee Natl. Forest, Bonneville Co.

842—R. D. Webb, Minden, La., wants preliminary permit power project on Lake Fort of Gunnison River, on public lands, in Hinsdale Co., Colo.

843—Gasconade River Power Co., Kansas City, Mo., wants preliminary permit power project in Gasconade River, in Osage, Maries and Phelps Counties.

844—City of Los Angeles, City Hall, Los Angeles, Calif., wants license transmission line on public lands in Inyo County running between Los Angeles Big Pine Creek Power Plant 3 and Los Angeles Intake Gorge Transmission line.

845—Deschutes Power & Light Co., Portland, Ore., wants license transmission line on public lands, in Deschutes and Jefferson Counties, between Culver and Prineville.

846—North Park Mining & Development Co., Concordia, Kan., wants preliminary permit power project on Big Creek, in Hayden Natl. Forest, Jackson Co., Colo.

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Unclassified

Proposed Work

Causeway, etc. — Boston, Mass. — Dept. Pub. Wks., J. H. Sullivan, comr., plans widening Causeway and Nashua Sts. $255,000.

Grand Stand—Clinton, Mass.—Town, W. Cogswell, chn. com., plans concrete and timber grand stand, Fulton Field. $25,000. Engineer not selected.

Piers—New Bedford, Mass.—City, T. H. Margeson, chn. com., making preliminary plans extending Pier 3, 200 ft. and Pier 4 60 ft., concrete and brick. $25,000. G. H. Nye, city engr.

Airport—Providence, R. I.—State plans airport, Gaspee Point within ten miles of here. $500,000.

Gas Holder—New Brunswick, N. J.—Pub. Serv. Corp., Terminal Bldg., Park Pl., Newark, having plans prepared by Pub. Serv. Production Co., 80 Park Pl., Newark, 500,000 cu.ft. storage gas holder and pumping station, here. $40,000.

Bulkheads—Surf, N. J.—City, N. Snyder, mayor, plans bulkheads in Barnegat Bay. $500,000.

Swimming Pool—Somerton (sta. Phila.), **Pa.**—Owner, c/o E. A. Schoeppe, archt., 1437 Spruce St., having plans prepared 75 x 100 ft., rein.-con. swimming pool, Lincoln Highway, here.

Causeway—Muskegon, Mich.—See "Streets and Roads."

Docks—Burlington, Ia.—Making plans 100 x 170 ft. fireproof dock house, timber dock, 5,000 ft. trackage, escalator, and 50 x 215 ft. steel wharf barge. $220,000. W. F. Schulz Eng. Co., Shrine Bldg., Memphis, Tenn., engrs.

Grain Elevator—Salina, Kan.—H. D. Lee Flour Mills Co. plans grain elevator, rein.-con., 350,000 bbl. capacity. $100,000.

Telephone Facilities—Missouri—Southwestern Bell Telephone Co., 11th and Pine Sts., St. Louis, plans expending $8,000,000, for telephone facilities improvements incl. new equipment and replacing, etc. old facilities, in Missouri, Kansas, Oklahoma, Texas and Arkansas. P. Redmond, genl. mgr.

Sand Plant—Kansas City, Mo.—Woods Bros. Corp., Security Bldg., plans sand plant, incl. equipment for cleaning sand. Private plans.

Stadium — St. Louis, Mo. — Washington University, Skinker and Forsythe Blvds., having preliminary plans prepared rein.-con. stadium, 25,000 seating capacity. $1,000,000. W. Edmunds, athletic dir.

Pumping Plant—Del Rio, Tex.—Illinois Pipe Line Co. making plans 2 pumping plants on oil line radiating from Yates Pool to refinery plant near here. $70,000. Private plans.

Airport — McAllen, Tex. — Owner, c/o W. R. McGarity, secy. Chamber of Commerce, purchased 200 acre site and plans airport, hangars and mechanical shop, etc. on International Highway. $60,000.

Light and Power Plant Equipment — Perryton, Tex. — Inland Utilities Co., subsidiary of Fairbanks-Morse & Co., 1218 Liberty St., Kansas City, Mo., making surveys installing additional engines and cooling system for light and power plant, here. $60,000. Private plans.

Gas Line—Port Neches, Tex.—Dixie Gas Co. making plans extending 6 and 8 in. natural gas mains in various streets. $35,000. Private plans.

Land Development—San Antonio, Tex.—J. M. Clark Sales Co., c/o L. A. Arneson & J. Clark, Gunter Bldg., purchased 100 acre site and plans sub-division improvement, incl. natural gas distributing system $20,000, waterworks $25,000, electric improvements throughout land $12,000, mostly equipment and materials, also paving $35,000, on Basse Rd., north side of city limits. Private plans.

Oil and Gas Refinery Plant—Wickett (near Sand Hills mail Monahans), **Tex.**—Blue Bonnet Oil & Refining Co. plans oil and gas refinery plant. $150,000. Private plans.

Transmission System — Oklahoma and Missouri—Empire Dist. Electric Co., Joplin, Mo., making plans 14 mi. 13,200 volt transmission system in Fairland, Okla., and transmission line to Seneca, Mo. $30,000. Private plans.

Grain Elevator—Washington C. H., O.—Fayette Produce Co. having plans prepared grain elevator, incl. office and warehouses. $40,000. Private plans.

Hydro-Electric Development — Olympia, Wash. — Hamma Hamma Paper & Power Co., E. M. Chandler, pres., plans expending $1,500,000, developing electric energy for manufacturing and public service purposes, incl. dam and facilities to produce 19,000 hp., $480,000.

Rip Rap Stone—Coronado, Calif.—W. T. Clark, city clk., rejected bids furnishing and placing 5,000 tons rip-rap stone on Coronado Sea Wall. Will readvertise. Noted Nov. 3.

Lighting System—Inglewood, Calif.—O. H. Duelke, city clk., plans ornamental lighting system on Commercial and Queen Sts., etc. To exceed $25,000.

Lighting System—Oakland, Calif.—Plans ornamental lighting system on portions 11th and Washington Sts., etc. To exceed $25,000. G. N. Randle, city engr.

Bids Desired

Dry Dock—Brooklyn, N. Y.—Dec. 12, by F. R. Harris, engr., 551 5th Ave., New York City, 750 ft. graving dry dock at Robbins Dry Dock & Repair Co. plant, Erie Basin, here, for Todd Shipyards Corp., 25 Bway., New York City. Noted Nov. 3.

Exit Facilities and Fire Stops—Poughkeepsie, N. Y.—Dec. 14, by Commissioner Mental Hygiene, Dept. Mental Hygiene, Albany, constructing exit facilities and fire stops at Hudson River State Hospital, here; adv. E. N.-R. Nov. 24.

Dock—Punta Gorda, Fla.—Dec. 1, at City Hall, dock, channel and turning basins, 26,000 cu.yd. dredged excav. (spoiled), 47,000 cu.yd. dredged embankment fill, 20,000 ft. bulkhead timber in place and 5,700 sq.yd. paving, etc. C. K. Dodd, city mgr.

Land Development—Lockney, Tex.—See "Contracts Awarded."

Generator, etc.—Seattle, Wash.—Dec. 2, by Bd. Pub. Wks., installing a.c. generator approximately 14,285 kva. maximum capacity, on horizontal shaft, reaction type turbine driven, also exciter, valves, transformers, switches, etc. in Unit 6 of Cedar Falls hydro-electric development. $200,000.

Undergrade Crossings, etc. — Applegate, Calif.—Dec. 5, by State Hy. Dept., Sacramento, 2 undergrade crossings under Southern Pacific R.R. tracks near here, Placer Co. R. M. Morton, Strub Bldg., Sacramento, engr.

Contracts Awarded

Storage Tanks — Chelsea (br. Boston), **Mass.** — Mexican Petroleum Corp., 111 Eastern Ave., reconstructing 6 steel storage tanks, on Western Ave., to C. B. Maguire, Weybosset St., Providence, R. I. Engrs. est. $25,000.

Fire Alarm System—Brooklyn, N. Y.—J. J. Dorman, comr. Fire Dept., Municipal Bldg., New York, portion underground fire alarm system in Greenpoint, Williamsburg, Eastern District, Bushwick, and Ridgewood Sections, here, to W. T. Dipple, Inc., 1 Hunter Ave., Long Island City, $44,440. Noted Nov. 10.

Boilers, Mechanical Stokers, etc. — Milwaukee, Wis. — Dept. Pub. Wks., R. E. Stoelting, comr., moving and resetting two 300 hp. horizontal water tube boilers, and mechanical stokers, for North Point Pumping Station, to Industrial Heating & Eng. Co., 490 Bway., $77,560. Engrs. est. $44,000.

Stone Wall—Manhattan, Kan.—Kansas State Agricultural School, native stone wall, to M. J. Green, Manhattan. Engrs. est. $30,000. Noted Nov. 3.

Culverts—Minnesota—See "Streets and Roads."

Culverts — Nebraska — See "Streets and Roads."

Land Development — Lockney, Tex. — Stokes & Shields, Midland will develop subdivision, incl. watermains, laterals, sanitary sewers, natural gas distributing system, and paving roads, in West Lockney, by day labor. Private plans.

Materials

Proposed Work

Ohio Salt Glazed Vitr. Pipe, etc.—Muskegon Heights, Mich.—City soon takes bids 43,328 ft. 6- to 12-in. Ohio Salt Glazed vitr. pipe, and 700 ft. 6 in. c.i. Class "A" pipe. $8,000. C. F. Gamble, City Hall, engr.

Water and Sewer Pipe, etc.—Minneapolis, Minn.—F. S. Gram, city purch. agt., plans purchasing approximately 1,500 tons c.i. water pipe, 3,000 tons sulphate of alumina, 150 tons water castings; vitr. clay tile pipe and 400 tons sewer castings; also 125,000 bbl. portland cement, 2,000 tons asphalt, 5,000,000 paving bricks, 16,000 tons trap rock and 2.5 m.g. road oil, etc. N. W. Elsberg, City Hall, engr.

Road Oil—Anaheim, Calif.—E. B. Merritt, city clk., plans purchasing 2,500 bbl. road oil.

Cement—Merced, Calif.—A. A. Blakesley, ch. engr. Merced Irrigation Dist., plans purchasing in open market 4,000 bbl. cement. Former bids rejected.

Bids Desired

Fabricated Steel, Frogs, Crossings, etc.—Phila., Pa. — Nov. 29, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., at 15 North 32d St., fabricated steel for transmission towers, Contr. 125—1927; also frogs, crossings and crossovers, Contr. 126—1927.

Water Pipe—Chicago, Ill.—Nov. 28, by City, Room 406, City Hall, 609 tons 4 in. and 8 in. c.i. pipe, f.o.b. cars, at various pipe yards. R. W. Wolfe, comr. Pub. Wks.

Lumber — Knoxville, Ia. — Dec. 2, by Auditor Marion Co., 9 cars rough fir lumber, 1 car cypress piling and 1 car creosoted material. R. T. Johnson, Knoxville, co. engr.

Lead Pipe—Bristow, Okla.—City, M. Morrison, mayor, in market 5,000 ft. ¾ in. lead water pipe for Waterworks Dept.

Pipe—Frederick, Okla.—City, J. G. Brown, mayor, in market 7,000 lin.ft. 4 and 6 in. Class "B" c.i. pipe for Waterworks Dept.

Road Oil—Fresno, Calif.—Dec. 6, by D. M. Barnwell, clk. Fresno Co., 72,500 bbl. natural crude oil, unprocessed, containing min. of 65% pure asphalt or bitumen, and 52,500 bbl. asphaltic oil prepared from products of California crude asphaltic petroleum containing min. of 73% pure asphalt or bitumen, (1 bbl. shall be understood to contain 42 gal.). C. P. Jensen, Cory Bldg., co. surv.

Pipe—Sanger, Calif.—Dec. 5, by M. W. Bacon, clk. Sanger Union High School Dist., 1,100 ft. 18 in. concrete pipe.

Bids Received

Structural Steel and Lumber—Cincinnati, O.—Comrs. Hamilton Co., Court House, 246,500 lb. structural steel for temporary viaduct over Cleveland, Cincinnati, Chicago & St. Louis Railroad tracks and Mill Creek, on 6th St., from General Iron Wks. Co., Front & Harriet Sts., $9,219 engrs. est. $10,846; also 6,760 lin.ft. white oak piling, 212,000 ft. structural fir timbers, 89,124 ft. No. 1 and 3,667 ft. No. 2 common pine, from Buskirk Lumber Co., 8th and Horne Sts., $16,296 engrs. est. $17,641. Noted Nov. 3.

Contracts Awarded

Pumps, etc.—Albany, N. Y.—Bd. Contr. & Supply, City Hall, to Worthington Pump & Mchy. Co., 115 Bway., New York City, two 10 m.g. pumps at $3,200 each, and one 15 m.g. motor driven pump $17,200; to United States C.I. Pipe & Fdry. Co., Burlington, N. J., 8,000 ft. 36 in. c.i. pipe at $37.50 per ton, 60 ft. 48 in. pipe $37.50, 54 tons special castings $100, and 37 tons flanged castings $140; to Chapman Valve Mfg. Co., Indian Orchard, Mass., two 30 in. hydraulic gate valves at $1,053 each, four 16 in. hydraulic gate valves $711, one 30 in. check valve $790, two 16 in. check valves $159, and one manually operated gate valve $211. Noted Nov. 3.

Fuel Oil—New Orleans, La.—Sewerage & Water Bd., 526 Carondelet St., 100,000 bbl. fuel oil, to New Orleans Refining Co., United Fruit Bldg., at $1.24 per bbl.

Water Pipe, etc.—Chicago, Ill.—Dept. Pub. Wks., Room 406, City Hall, 400 tons 6 in. c.i. water pipe at various pipe yards, to J. B. Clow & Co., North Talman Ave. and West Lake St., at $34.90 per ton, 5,880 tons 30- to 54-in. c.i. water pipe on various streets, to U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Blvd., $39.90; and 210 tons 24 in. water pipe at 3150 South Sacramento Ave., to Natl. Cast Iron Pipe Co., Tarrant City, Birmingham, Ala. $34.70.

Pipe—Compton, Calif.—For 3,359 ft. 4 in. and 1,830 ft. 8 in. Class 150 lb. pipe, to Pacific States Cast Iron Pipe Co., 417 South Hill St., at $0.38 and $0.73½ per ft., respectively; also 900 ft. 1 in. copper service pipe, to Muller Co., 2468 Hunter St., Los Angeles, at $24.38 per 100 ft.

Pipe — Santa Barbara, Calif. — C. E. Hasse, city purch. agt., 6,000 ft. 6 in. and 2,000 ft. 12 in. c.i. DeLavaud pipe, to Natl. Cast Iron Pipe Co., New Orpheum Theatre Bldg., Los Angeles, $6,412. Noted Nov. 3.

See proposal advertising on page 121

Constr. News page 269

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Materials and Labor Bids on Sewage Treatment Plant—Alliance, Ohio

Bids were opened by Board of Control, Sept. 20, (lowest three) for constructing sewage disposal plant, from (A) Walter E. Sexton, Mineola, N. Y., (awarded contract); (B) Bierd, Lydon & Grandpre, Inc., Chicago; (C) Hoch Contracting Co., Allentown, Pa. The unit bids are as follows:

	A			B			C		
	Material	Labor	Material and Labor	Material	Labor	Material and Labor	Material	Labor	Material and Labor
Engineer's office (lump sum)	$1,900.00	$1,800.00	$3,700.00	$500.00	$300.00	$800.00	$800.00	$700.00	$1,500.00
50 lin.ft. 10 in. well casing	4.00	.....	4.00	3.75	2.25	6.00	.65	.35	1.00
10 lin.ft. drilling well in rock	.....	20.00	20.00	.....	6.60	6.60	1.00	5.00	6.00
50 lin.ft. drilling well not in rock	.....	12.00	12.00	.....	7.25	7.25	1.00	3.25	4.25
Well screen (lump sum)	120.00	50.00	170.00	250.00	100.00	350.00	140.00	10.00	150.00
56,700 cu.yd. earth excavation—Class A	.....	.70	.70	.....	.40	.40	.10	.90	1.00
10,500 cu.yd. earth excav—Class B	.....	.70	.70	.....	.75	.75	.20	.90	1.10
100 cu.yd. rock excav.	.....	4.00	4.00	.....	5.00	5.00	1.00	3.00	4.00
7,840 cu.yd. conc—Class A	11.00	5.50	16.50	8.80	5.20	14.00	10.00	6.50	16.50
530 cu.yd. conc—Class B	13.50	6.50	20.00	10.00	15.00	25.00	10.00	12.00	22.00
50 bbl. additional portland cement	2.60	.....	2.60	3.00	.50	3.50	2.50	.50	3.00
400 lin.ft. expansion joints	.45	.30	.75	1.00	.25	1.25	.50	.10	.60
380 ton steel reinforcement	72.00	16.00	88.00	62.50	19.00	81.50	50.00	25.00	75.00
110 ton bell and spigot cast iron pipe	45.00	30.00	75.00	51.50	27.30	78.80	42.00	20.00	62.00
15 ton flanged cast iron pipe	65.00	40.00	105.00	73.50	32.80	106.30	70.00	20.00	90.00
15 ton bell and spigot standard fittings	100.00	50.00	150.00	134.50	33.40	167.90	98.00	25.00	123.00
5 ton flanged standard fittings	145.00	75.00	220.00	111.00	29.80	140.80	145.00	25.00	170.00
18 ton special fittings	145.00	75.00	220.00	216.00	29.00	245.00	165.00	30.00	195.00
100 ton universal cast iron pipe	55.00	20.00	75.00	64.50	38.50	103.00	60.00	20.00	80.00
6 ton universal cast iron pipe fittings	130.00	20.00	150.00	180.00	38.50	218.50	170.00	20.00	190.00
300 lin.ft. 1 in. or smaller galvanized iron pipe	.20	.10	.30	.20	.08	.28	.20	.15	.35
800 lin.ft. 1¼ in.	.30	.15	.45	.44	.10	.54	.30	.20	.50
1,200 lin.ft. 2 in.	.45	.20	.65	.62	.20	.82	.40	.30	.70
1,000 lin.ft. 2½ in.	.55	.20	.75	1.03	.32	1.35	.60	.25	.85
1,300 lin.ft. 3 in.	.75	.25	1.00	1.30	.32	1.62	.75	.25	1.00
25—1 in. or smaller, gate valves	1.50	1.00	2.50	1.37	.13	1.50	1.35	.50	1.85
15—1½ in.	2.60	1.00	3.60	2.45	.12	2.57	2.30	.75	3.05
55—2 in.	6.60	1.40	8.00	6.35	.18	6.53	6.00	1.00	7.00
5—2½ in.	6.60	1.40	8.00	6.35	.24	6.59	6.00	1.00	7.00
10—3 in.	7.25	1.75	9.00	7.75	.58	8.33	6.50	1.50	8.00
44—4 in.	14.20	2.50	16.70	12.90	1.45	14.35	12.25	1.60	13.85
3—6 in.	25.60	3.00	28.60	25.50	2.92	28.42	22.00	2.50	24.50
66—8 in.	41.00	4.00	45.00	39.20	3.50	42.70	35.50	5.00	40.50
3—10 in.	34.00	6.00	60.00	53.25	4.67	57.92	46.00	7.50	53.50
2—24 in.	312.00	20.00	332.00	261.00	23.30	284.30	260.00	30.00	290.00
4—6 in. sluice gates	70.00	5.00	75.00	32.40	2.45	34.85	68.00	6.00	74.00
4—8 in.	85.00	10.00	95.00	47.60	2.85	50.45	85.00	10.00	95.00
9—12 in.	105.00	15.00	120.00	62.00	5.55	67.55	110.00	14.00	124.00
2—9—24 in. circular sluice gates	200.00	25.00	225.00	245.00	15.20	260.20	190.00	30.00	220.00
2—24 in. x 24 in. sluice gates	200.00	25.00	225.00	237.00	13.50	250.50	185.00	30.00	215.00
1—30 in. circular sluice gate	265.00	30.00	295.00	330.00	17.00	347.00	250.00	40.00	290.00
10—adjustable valve boxes and covers	5.00	2.00	7.00	6.40	1.50	7.90	8.25	1.00	9.25
12—floor stands	65.00	5.00	70.00	65.25	3.90	69.15	74.00	8.00	82.00
100 lin.ft. iron pipe railing, Type A	1.35	.40	1.75	1.57	.46	2.03	1.00	.50	1.50
350 lin.ft. iron pipe railing, Type B	1.50	.50	2.00	1.65	.53	2.18	2.00	.50	2.50
3,400 lin.ft. 6 in. or smaller, vit. pipe	.13	.10	.23	.10	.52	.62	.10	.20	.30
100 lin.ft. 8 in.	.19	.15	.34	.17	.63	.80	.16	.20	.36
300 lin.ft. 10 in.	.25	.16	.41	.20	.70	.90	.22	.28	.50
450 lin.ft. 24 in.	1.75	.50	2.25	1.68	.92	2.60	1.60	.80	2.40
Per cent discount, vitrified pipe special	50%	....	50%	....	....	65%	....	....	70%
2,500 lin.ft. 4 in. agricultural drain tile	.05	.05	.10	.05	.10	.15	.08	.22	.30
100 lin.ft. 6 in. agricultural drain tile	.09	.09	.18	.09	.17	.26	.10	.25	.35
25,000 lb. miscellaneous cast iron work	.07	.01	.08	.07	.03	.10	.07	.03	.10
20,000 lb. miscellaneous wrought iron and steel work	.07	.03	.10	.09	.03	.12	.12	.03	.15
5 M. ft. B.M. miscellaneous wood work	80.00	20.00	100.00	160.00	40.00	200.00	110.00	40.00	150.00
Buildings (lump sum)	27,500.00	9,200.00	36,700.00	27,777.00	9,650.00	37,427.00	30,000.00	10,000.00	40,000.00
Steam heating equipment (lump sum)	3,200.00	1,000.00	4,200.00	3,600.00	1,300.00	4,900.00	2,500.00	1,500.00	4,000.00
Electric wiring (lump sum)	4,000.00	3,200.00	7,200.00	4,400.00	2,000.00	6,400.00	5,500.00	2,500.00	8,000.00
Plumbing (lump sum)	1,900.00	1,000.00	2,900.00	1,700.00	1,400.00	3,100.00	2,200.00	800.00	3,000.00
Industrial equipment (lump sum)	2,000.00	315.00	2,315.00	2,500.00	510.00	3,010.00	2,500.00	1,000.00	3,500.00
Venturi meter equipment (lump sum)	1,450.00	200.00	1,650.00	2,000.00	138.00	2,138.00	1,920.00	200.00	2,120.00
Filter dosing equipment (lump sum)	5,430.00	150.00	5,580.00	7,500.00	400.00	7,900.00	6,400.00	1,000.00	7,400.00
Sludge ejector and piping (lump sum)	1,450.00	200.00	1,650.00	1,775.00	245.00	2,020.00	1,300.00	250.00	1,550.00
Pumping equipment (lump sum)	9,600.00	650.00	10,250.00	10,420.00	1,580.00	12,000.00	11,500.00	2,500.00	14,000.00
Sludge removal equipment (lump sum)	11,200.00	1,300.00	12,500.00	13,100.00	1,650.00	14,750.00	10,900.00	1,500.00	12,400.00
10 sq.ft. vault lights (fixed)	1.75	1.25	3.00	6.00	2.00	8.00	5.00	1.00	6.00
180 sq.ft. vault lights (hinged)	5.30	1.70	7.00	8.00	3.00	11.00	5.00	1.00	6.00
20,400 cu.yd. filtering material	2.70	.30	3.00	3.25	1.00	4.25	2.50	1.30	3.80
6,125 sq.yd. trickling filter floor system	2.60	.70	3.30	3.25	2.10	5.35	2.80	.30	3.10
288 filter nozzles	2.05	.55	2.60	2.00	.25	2.25	2.00	.50	2.50
12,270 sq.ft. sludge bed covering	1.10	.20	1.30	1.00	.60	1.60	1.38	.20	1.58
500 cu.yd. sand for sludge beds	2.35	.30	2.65	2.45	1.00	3.45	3.00	.50	3.50
80 cu.yd. gravel for sludge beds	2.35	.30	2.65	2.60	1.00	3.60	3.00	.50	3.50
1,500 sq.yd. special tamping	.....	.15	.15	.....	.30	.30	.01	.14	.15
Painting (lump sum)	1,500.00	1,000.00	2,500.00	800.00	1,200.00	2,000.00	3,000.00	2,000.00	5,000.00

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(*Concluded on page 68*)

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UNIT PRICES *Continued on page 270a*

VULCANITE SUPER CEMENT

Resists the Action of SULPHATE and ALKALINE WATERS

Vulcanite Super Cement is a more efficient form of Portland Cement in which a portion of the gypsum, ordinarily used to regulate the set, is treated with a catalytic agent.

This treated gypsum, when ground with the regular run of VULCANITE Portland Cement clinker, produces VULCANITE Super Cement. The rate of hardening is not accelerated; there is no change effected in color or setting time. VULCANITE Super Cement meets all the physical and chemical test requirements of the standard specifications for Portland Cement of the American Society for Testing Materials.

It produces a dense homogeneous concrete which is permanently waterproof, oilproof, and resistant to sulphate and alkaline waters.

No waterproofing compounds are necessary.

Permanently Waterproof and Oilproof

H. E. Brookby, Development Engineer of the United States Gypsum Company, in an address before a group of engineers in Detroit, Mich., September 28, 1927 stated:

"The rapid deterioration of Portland Cement Concrete in alkaline sulphate waters seriously handicaps concrete in underground work where such waters are encountered. In wet gypsum mines, ordinary concrete seldom lasts over 18 months.

"The concrete must not only be impervious to water, but also must not appreciably absorb and condense within itself moisture or water vapor from the humid mine atmosphere, for in this moisture absorption carbon dioxide and hydrogen sulphide must also be absorbed and then the chemical reactions follow.

"With us, so far, Super Cement has met these severe conditions and Super Cement Concrete is *in place after four years*, where had it been only ordinary concrete, its life would have been under *two* years. . . . . "We feel we have been warranted in making Super Cement Concrete standard concrete for the 'wet gypsum mine' concrete work of our company."

Use for

Coal Mines — Sewage Disposal Plants
Sea Water Construction — Gypsum Mines
Paper Mills

WRITE FOR A COPY OF THIS COMPLETE ADDRESS

Vulcanite Portland Cement Co.

ESTABLISHED 1894

Philadelphia Boston New York

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Sewage Treatment Plant (Continued)

1,300 sq.yd. roadway, Type A	$1.30	$.70	$2.00	$1.10	$.90	$2.00	$1.50	$.50	$2.00
2,260 sq.yd. roadway, Type B	.70	.35	1.05	.75	.45	1.20	1.00	.50	1.50
750 sq.yd. walks	.20	.10	.30	.70	.55	1.25	.20	.70	.90
3,000 cu.yd. loam	.....	.30	.30	.....	1.00	1.00	.10	.90	1.00
1,800 sq.yd. sodding	.07	.03	.10	.50	.50	1.00	.35	.65	1.00
9 acres seeding	10.00	5.00	15.00	35.00	65.00	100.00	9.10	11.90	21.00
6,000 lin.ft. fencing	.10	.03	.13	.13	.07	.20	.09	.07	.16
6 hydrants	25.00	5.00	30.00	39.00	6.50	45.50	60.00	20.00	80.00
1,200 sq.ft. steel floor grating	1.00	.20	1.20	1.50	.50	2.00	.70	.30	1.00
Control gates (lump sum)	450.00	50.00	500.00	375.00	75.00	450.00	900.00	150.00	1,050.00
Plunger pump (lump sum)	1,860.00	140.00	2,000.00	2,200.00	280.00	2,480.00	1,850.00	100.00	1,950.00
Centrifugal pump (lump sum)	850.00	100.00	950.00	1,350.00	280.00	1,530.00	650.00	100.00	750.00
Totals— Using plunger pump			$473,152			$500,691			$525,618
Totals— Using centrifugal pump			$472,102			$499,741			$524,418

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Track Laying—San Francisco, Calif.

Bids were opened by Board of Public Works, Sept. 28, for laying track along Judah Street, Sunset Line of Municipal Railway System, from (A) Eaton & Smith, 715 Ocean Ave., (awarded contract); (B) Federal Paving Co., Call Bldg.; (C) Municipal Improvement Co., 1723 Webster St. The unit bids are as follows:

	A	B	C
15,400 lin.ft. double track girder rail constr. and excav. paved area	$6.45	$6.00	$6.32
260 lin.ft. double track girder rail constr. and excav. paved area	6.70	6.00	6.00
4,640 lin.ft. double track T rail constr. in unpaved area	5.00	6.00	8.25
100 lin.ft. single track girder rail constr. in paved area	3.00	3.00	5.00
1 special track layout— Market and Duboce Sts.	1,000.00	1,200.00	2,380.00
1 special track layout— Duboce and Church Sts.	730.00	600.00	420.00
1 special track layout— Duboce and Fillmore Sts.	730.00	600.00	420.00
1 special track layout— Carl and Cole Sts.	730.00	600.00	420.00
1 special track layout— Carl and Stanyan Sts.	1,000.00	600.00	750.00
1 double track over double track girder, Judah St. and 20th Ave.	610.00	600.00	220.00
1 standard right-hand girder turn-out	210.00	600.00	220.00
3 standard girder rail cross-overs	425.00	600.00	180.00
2 pit-guards at tunnel approaches	360.00	180.00	150.00
17 standard manholes	150.00	105.00	200.00
8 special manholes	250.00	125.00	250.00
56,000 duct.ft. underground duct line	.20	.32	.13
500 duct.ft. lateral underground duct line	.50	.32	.90
100 lin.ft. creosoted wooden conduit	.50	.32	.90
5 ground boxes for electric track switches	20.00	5.00	20.00
250 lin.ft. galv. iron conduit	.50	.70	1.00
400 lin.ft. 4-in. vit. pipe sewer drains	1.00	.30	1.00
2,850 cu.yd. excav. for manholes	1.40	2.25	1.25
31,400 sq.ft. conc. stringers	.50	.40	.96
306,000 sq.ft. asph. conc. pavement	.24	.26	.227
15,000 sq.ft. asph. conc. conform pavement	.12	.14	.10
8,000 sq.ft. conc. base for conc. pavement	.25	.20	.15
20,500 sq.ft. art. stone sidewalks	.15	.13	.14
Totals	$248,267	$255,182	$266,065

Engineering News-Record, Issue of November 24, 1927.

Paving—Niles Center, Ill.

Bids were opened by City, May 3, for paving streets in Devonshire Manor, from (A) Arcola Construction Co., Evanston, (awarded contract); (B) W. A. Black, 565 West Washington Blvd., Chicago; (C) Krenn & Dato, 936 North Michigan Ave., Chicago. The unit bids are as follows:

	A	B	C
31,500 cu.yd. grading	$0.49	$0.70	$0.90
41,900 lin.ft. curb and gutter	.85	.90	.90
71,126 sq.yd. paving	2.21	2.30	2.46
144 inlets	23.50	20.00	30.00
36,604 lin.ft. exp. felt	.10	.12	.15
1,664 lin.ft. protection plate	.15	.20	.15
5,820 lin.ft. 8-in. vitr. pipe	.68	.90	1.00
47 manholes	6.00	5.00	8.00
44 catch basins	8.00	10.00	8.00
17,652 sq.yd. rein. mesh	.35	.30	.40
53,474 sq.yd. rein. mesh	.24	.20	.28
880 lin.ft. 8-in. vitr. pipe	1.00	.90	1.00
52,375 ft. ¾-in. round dowels	.04½	.08	.0525
8,424 lin.ft. 1-in. slip dowels	.06	.10	.045
20 catch basins	72.00	80.00	72.00
25,271 ft. round dowels	.05	.08	.0525
12,000 sq.ft. walkaprons	.23	.30	.27
Totals	$248,346	$267,104	$290,530

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Sewers—Elmhurst, Ill.

Bids were opened by City, May 2, (lowest three) for installing sewers, from (A) Gjellefald Construction Co., Forest City, Ia., (awarded contract); (B) Krenn & Dato, 936 North Michigan Ave., Chicago; (C) N. Santucci, Niles Center. The unit bids are as follows:

	A	B	C
3,455 lin.ft. 54-in. sewer	$15.00	$15.00	$14.60
1,505 ft. 48-in.	12.00	42.60	12.00
1,345 ft. 42-in.	10.00	11.20	11.20
2,000 ft. 36-in.	9.00	8.60	9.60
365 ft. 27 in.	5.00	4.70	7.20
1,830 ft. 21 in.	3.00	2.50	6.00
1,545 ft. 18-in.	2.00	1.90	2.18
2,525 ft. 15-in.	1.75	1.50	1.55
14,020 ft. 12-in.	1.25	1.00	1.20
330 ft. 8-in.	1.00	.70	1.00
88 small manholes	70.00	68.00	70.00
28 large manholes	80.00	62.00	80.00
118 catch basins	70.00	82.00	90.00
350 18-ft. drains	16.00	15.00	16.20
20 25-ft. drains	20.00	20.00	22.50
350-yd. conc.	15.00	15.00	14.00
1 outlet abutment	200.00	250.00	1,250.00
Totals	$162,340	$159,043	$173,302

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